16305

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TREATISE

ON

SERVICE ORDNANCE.

SEVENTH EDITION.

PLATES.



LONDON:

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(Wt. 27885 6000 2/09 H & S 2002

LIST OF PLATES. •

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                                        Subject.
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  15
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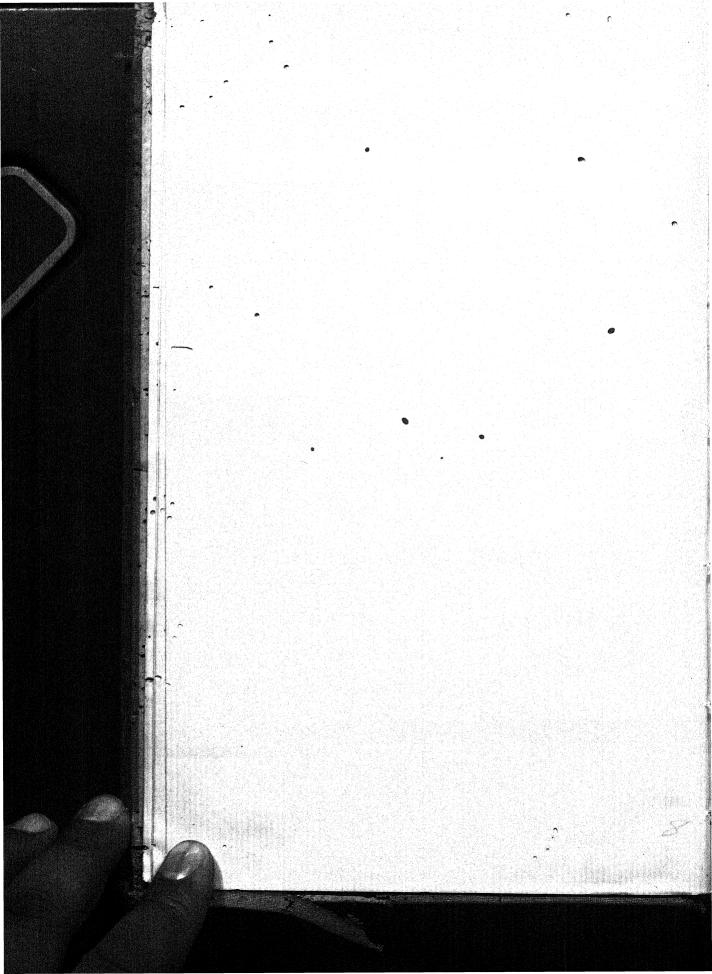
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                                B.L.C.
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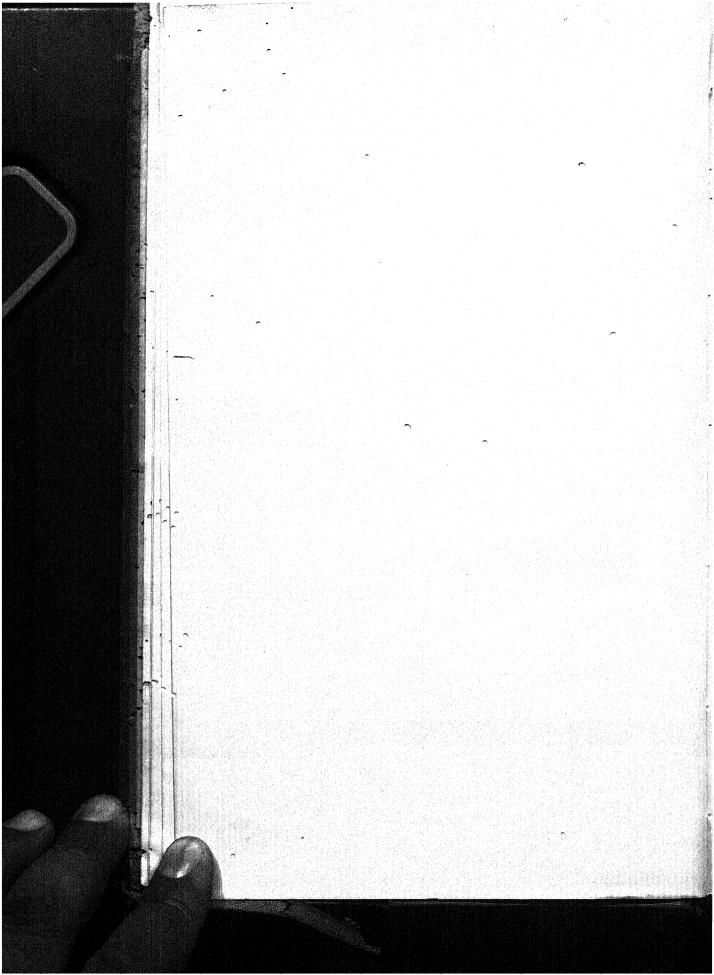
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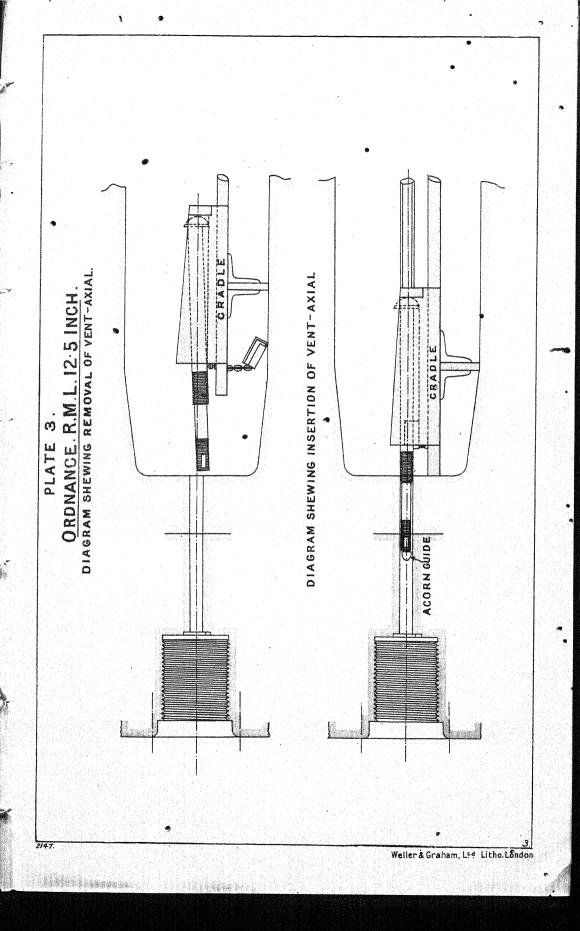
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ORDNANCE WROT IRON, R.B.L. 40 Pf. 35 CWT. MARK I. PLATE 1. B.COIL I.C.COIL BREECH PIECE BREECH BUSH E Welter & Grahams L. Licho London









BREECH SCREW
TURNED, READY FOR AND DURING WITHDRAWAL STOP BOLT. BREECH SCREW DRAWN OUT READY TO SWING ROUND WITH CARRIER. AND RETAINING CLIP STOP BOLT PLATE O F ACTION BREECH SCREW HOME 2/47. Weller & Graham. L! Litho. London

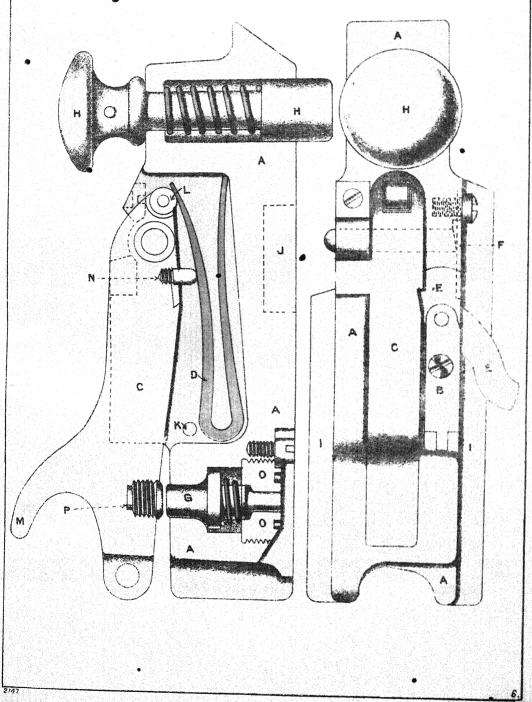
i determina



DIVIDED WEDGE SHAPED OBTURATOR MARK II STEEP CONED FOR FIELD GUNS PLATE OF PAD Types STEEP CONED MARK II. SLOW CONED Weller & Graham, Lr. Lirho, London



PLATE 6. LOCK PERCUSSION.



Weller & Cranam Lie Litro Londo



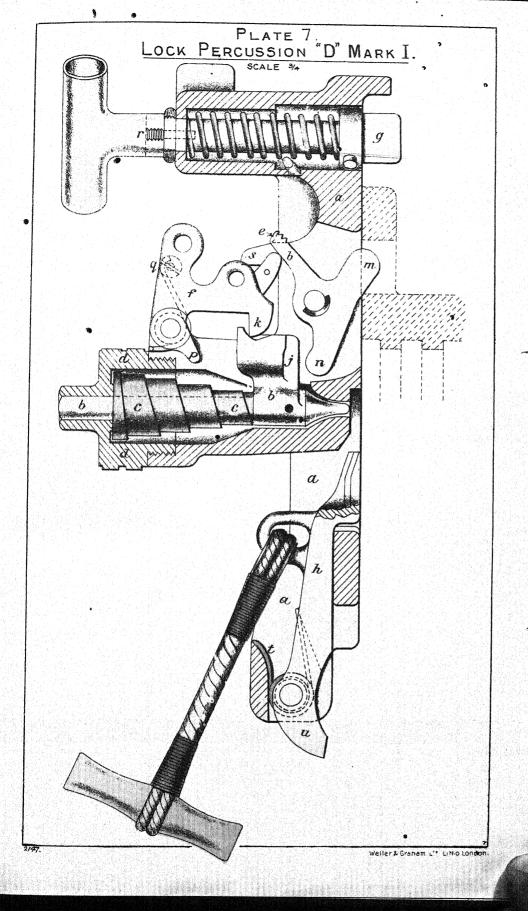
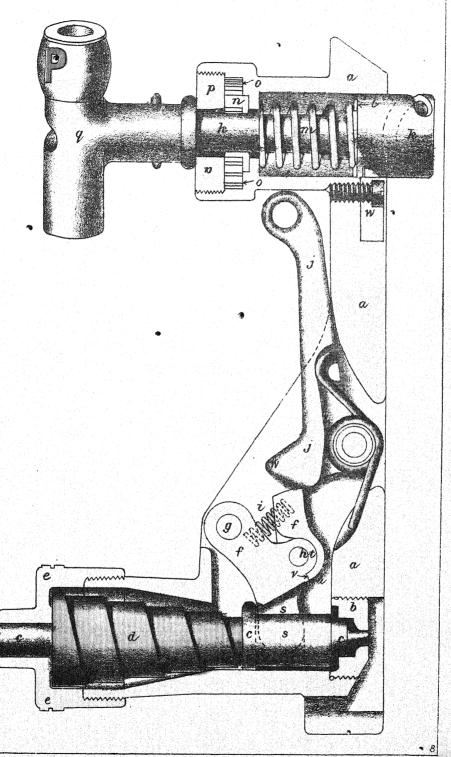




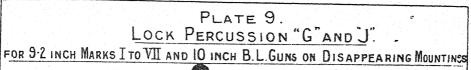
PLATE 8.

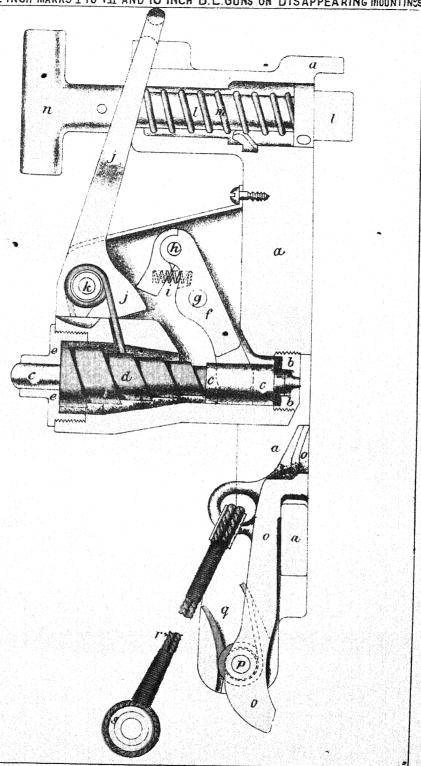
LOCK PERCUSSION. HAND K.

6-INCH. B. L. IV AND VI. ON DISAPPEARING MOUNTINGS.



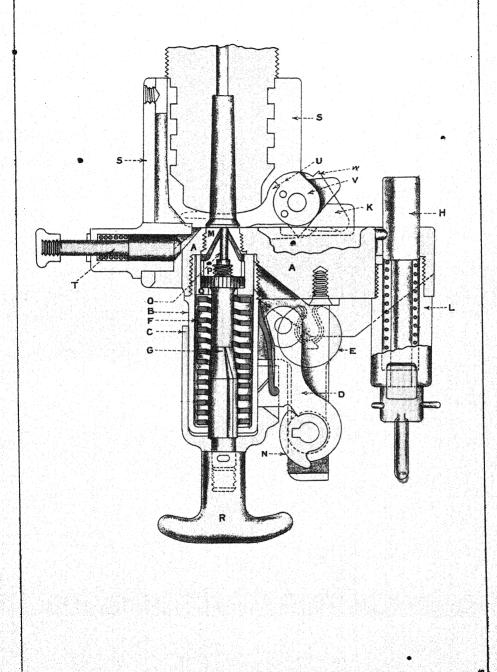








Lock Percussion "S" Mark I * and Slide Box "B" Mark I^{\star}



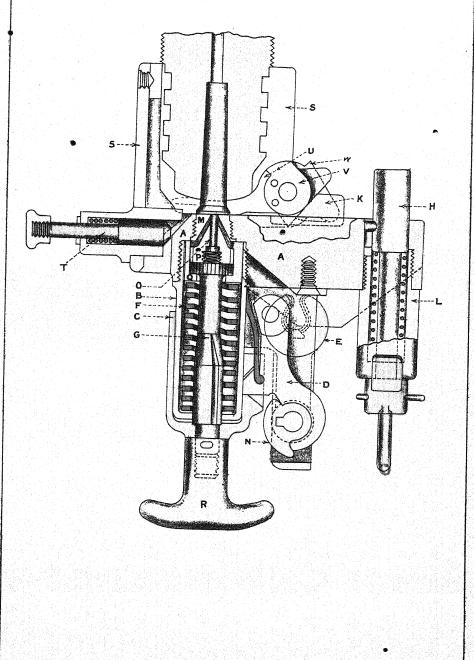
2147

Weller & Graham Ltd Litho London.



PLATE 10.

LOCK PERCUSSION "S" MARK I AND SLIDE BOX "B" MARK I*



2147

Weller & Graham, Ltd Litho, London.



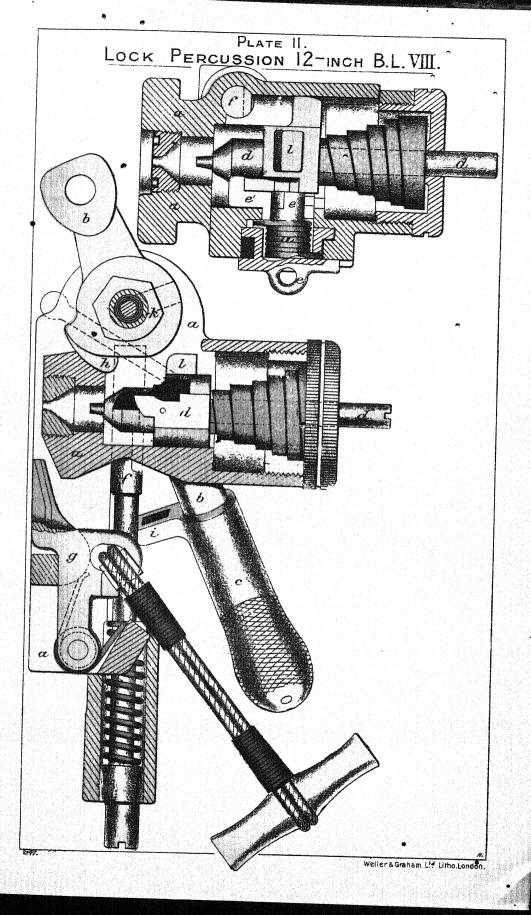




PLATE 12.

LOCK PERCUSSION 9-2-INCH MARKS VIII AND IX

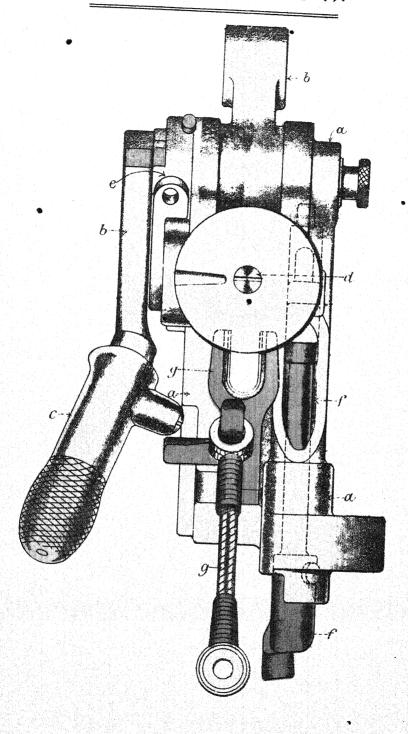




PLATE 13.

PERCUSSION LOCK 13-5-INCH B.L.

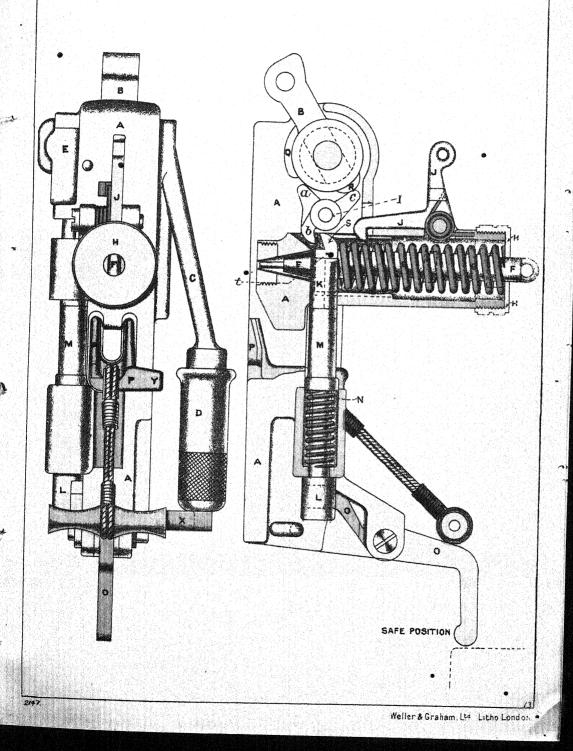
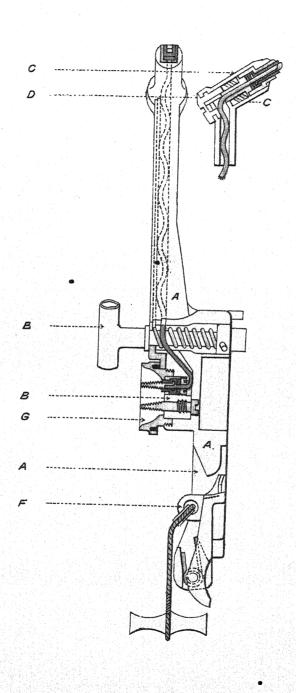
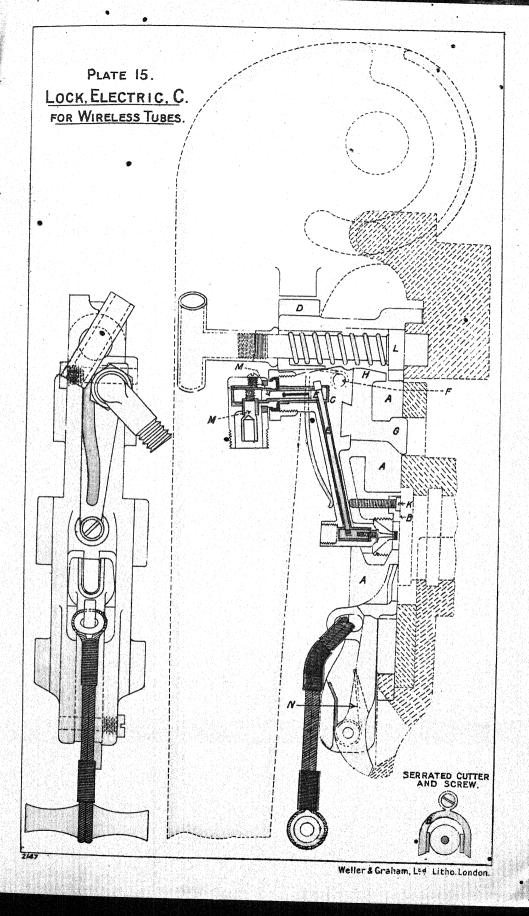




PLATE [4. LOCK ELECTRIC "B"







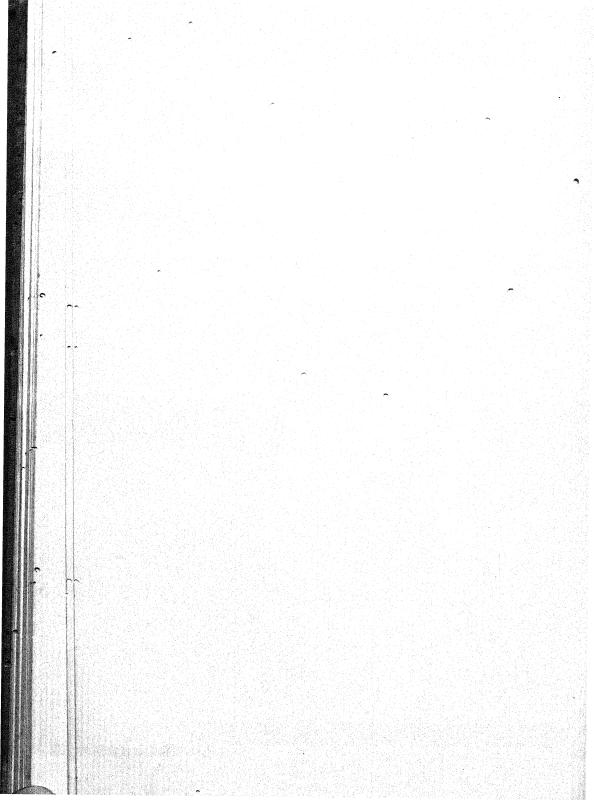
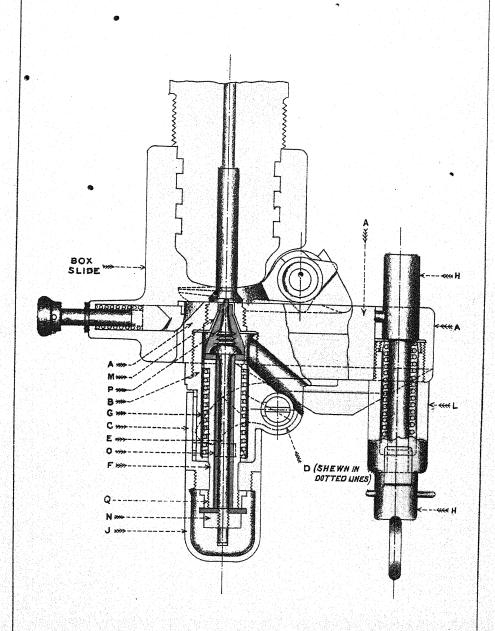


PLATE 16.

LOCK ELECTRIC "R" MARK I

AND SLIDE BOX "B" MARK II.



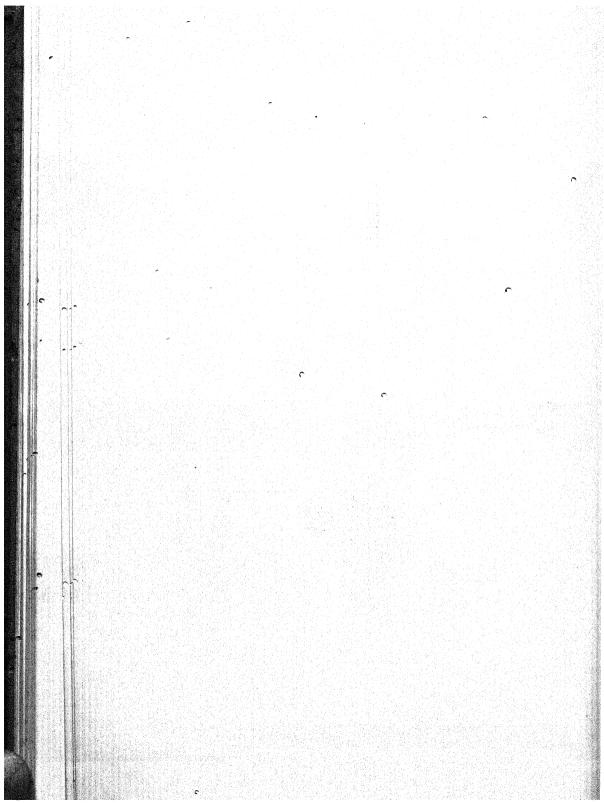


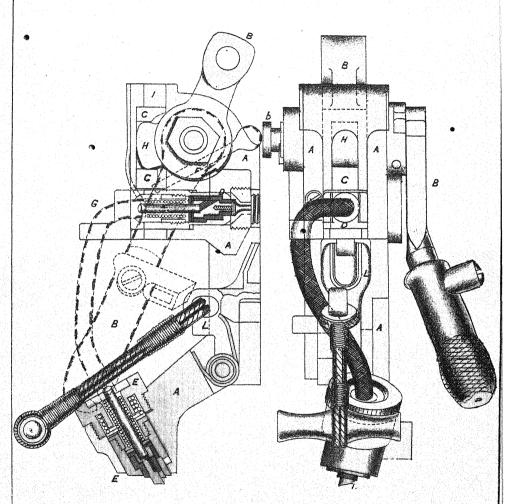
PLATE 17.

LOCK, ELECTRIC.

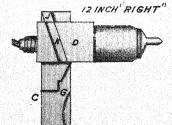
FOR WIRELESS TUBES

12 INCH B.L. MARK VIII GUNS

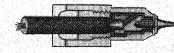
SCALE 1/2



CONTACT UPPER



CONNECTION, AUXILIARY CIRCUIT



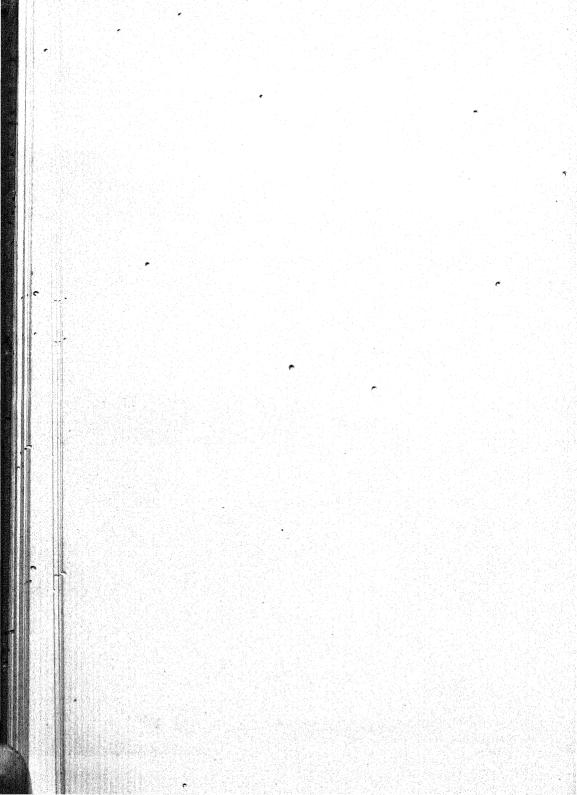
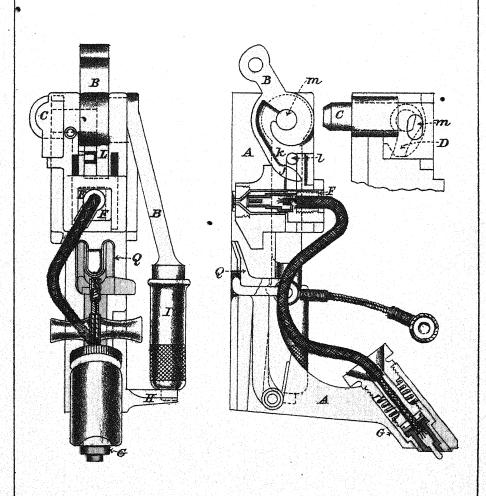


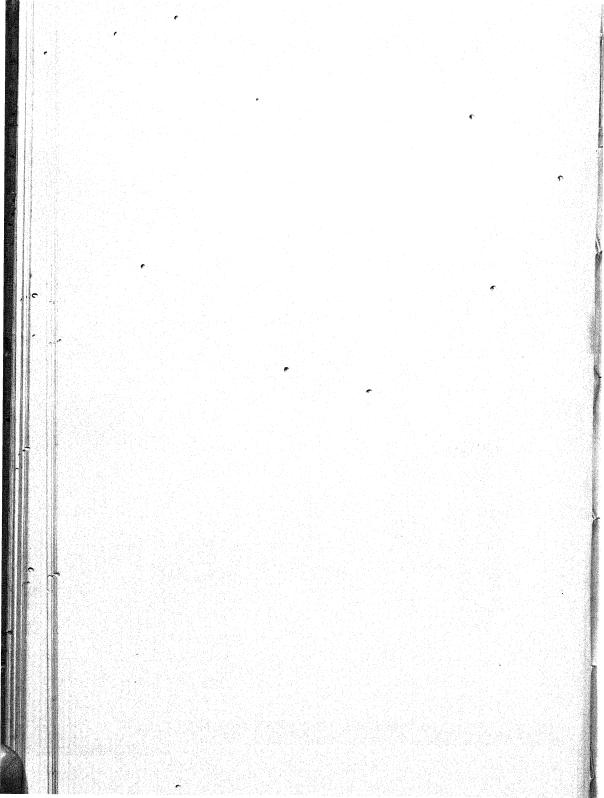
PLATE 18.

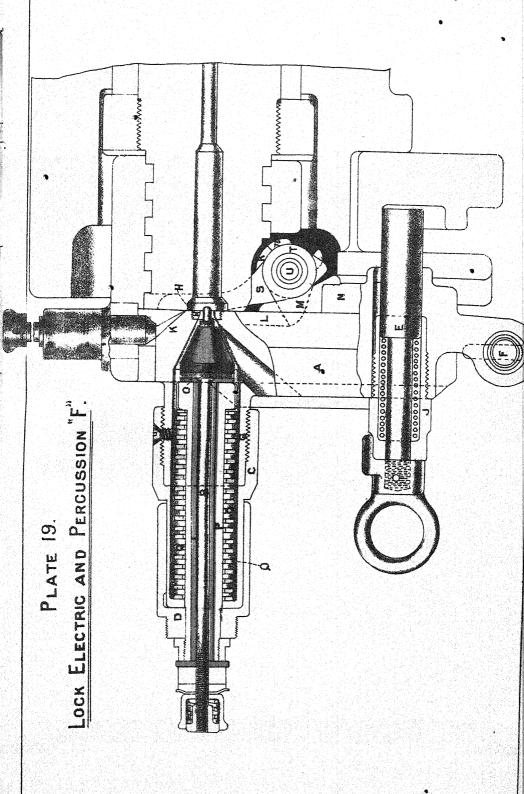
LOCK, ELECTRIC, 13.5 INCH.

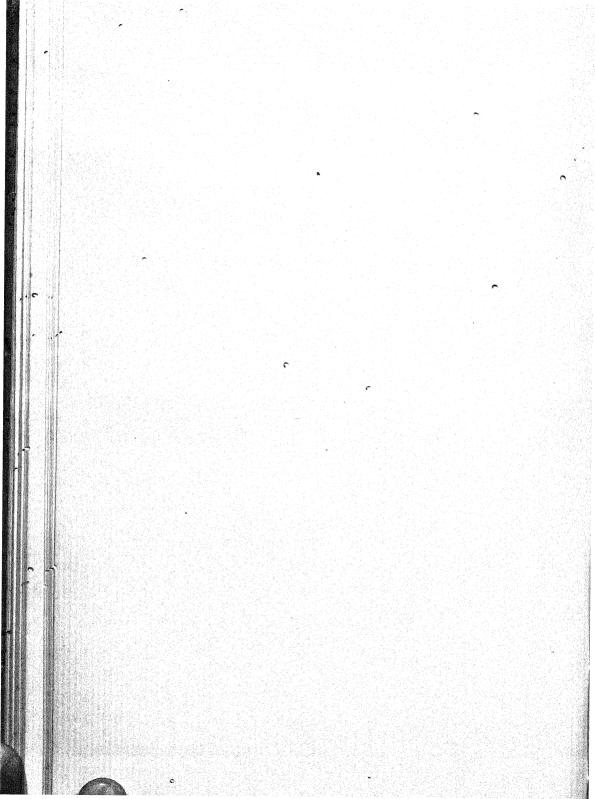
FOR WIRELESS TUBES.

MARK II AND III

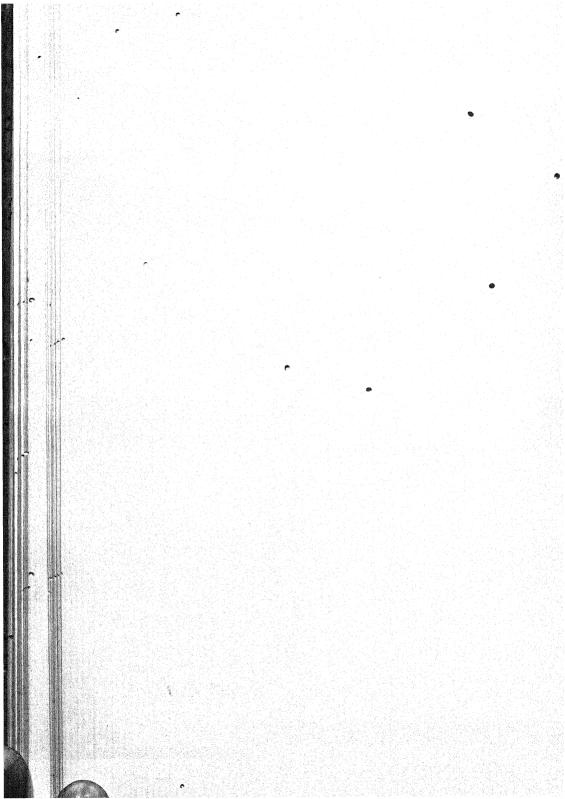


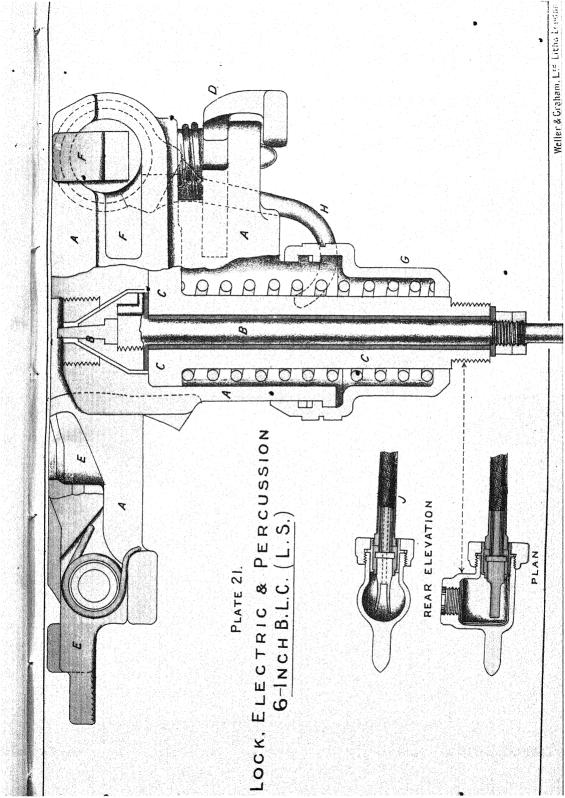


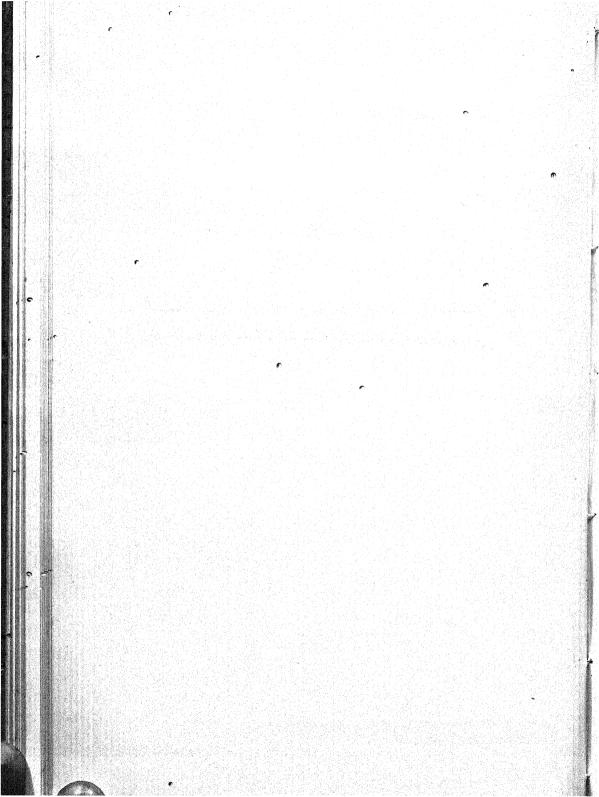




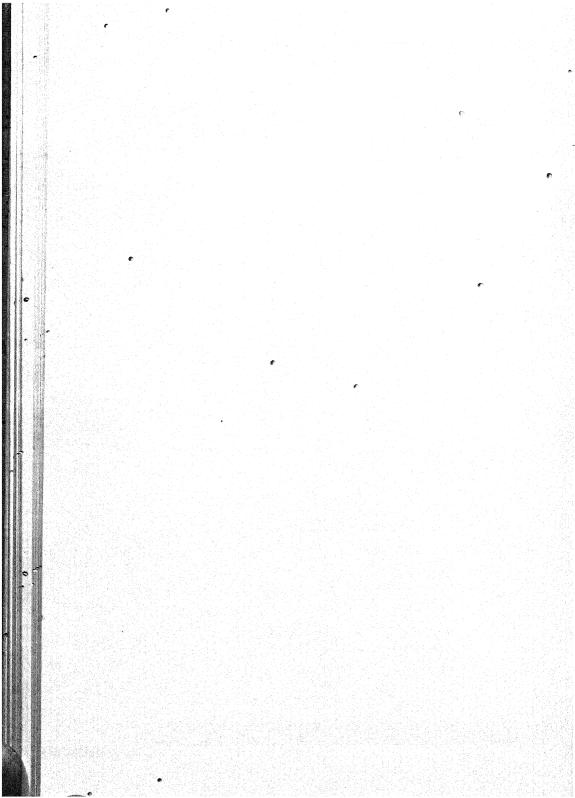
LOCK ELECTRIC AND PERCUSSION PLATE 20. 7

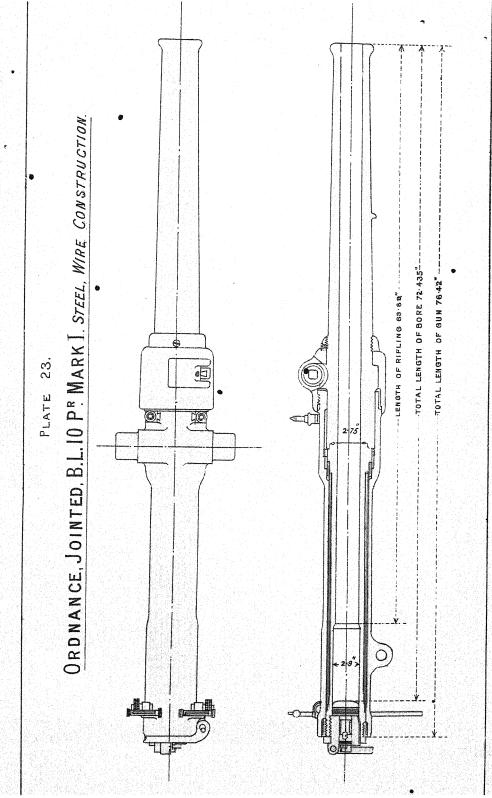


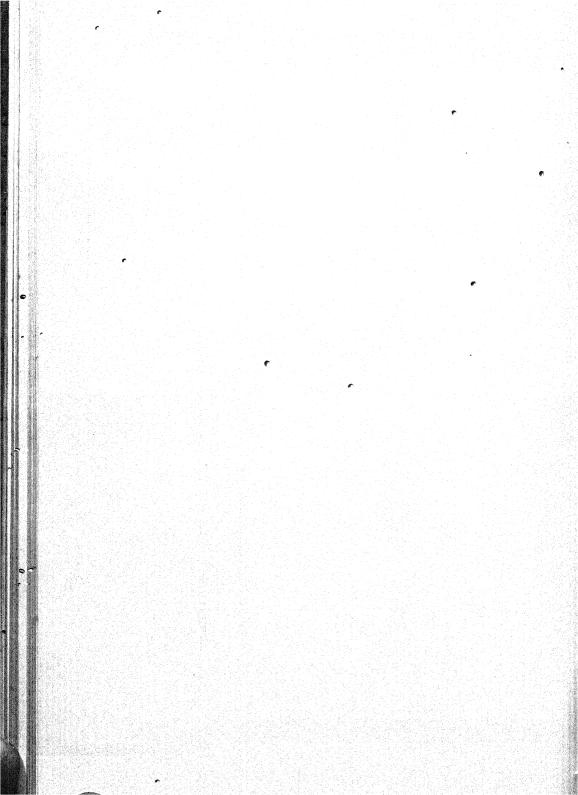


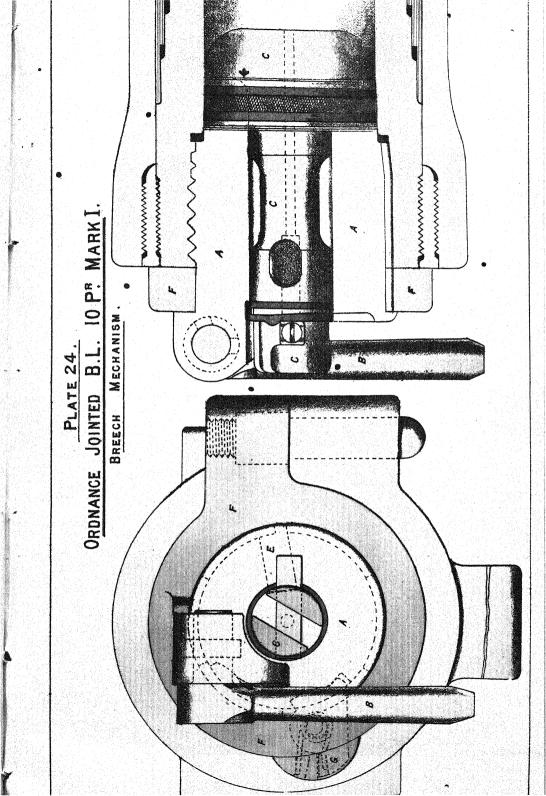


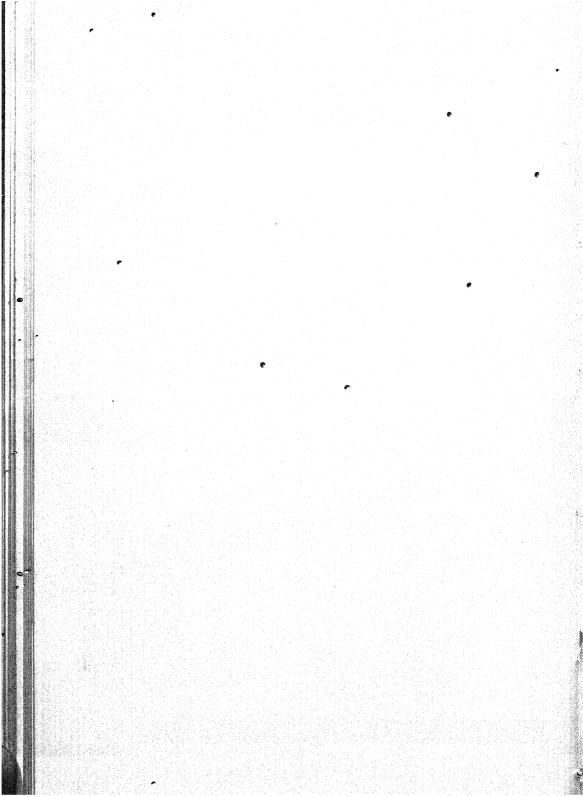
LOCK, ELECTRIC & PERCUSSION. 6 INCH B.L.C. (L.S.) PLATE 22.

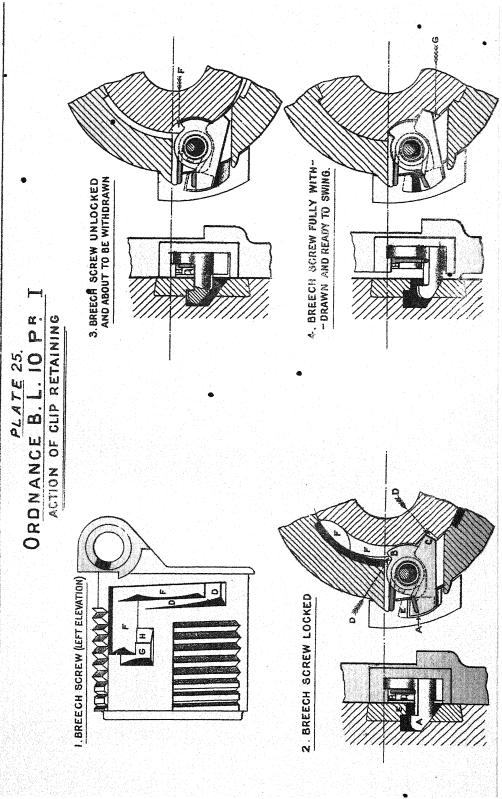


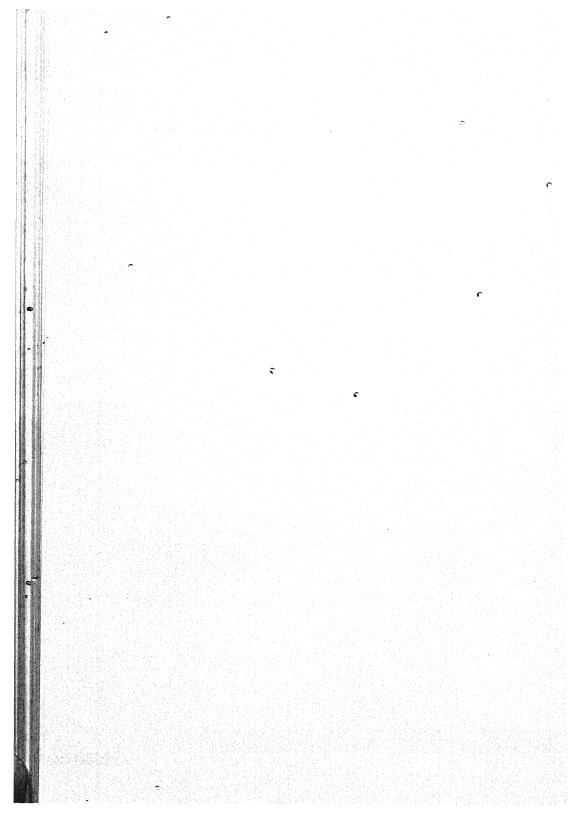




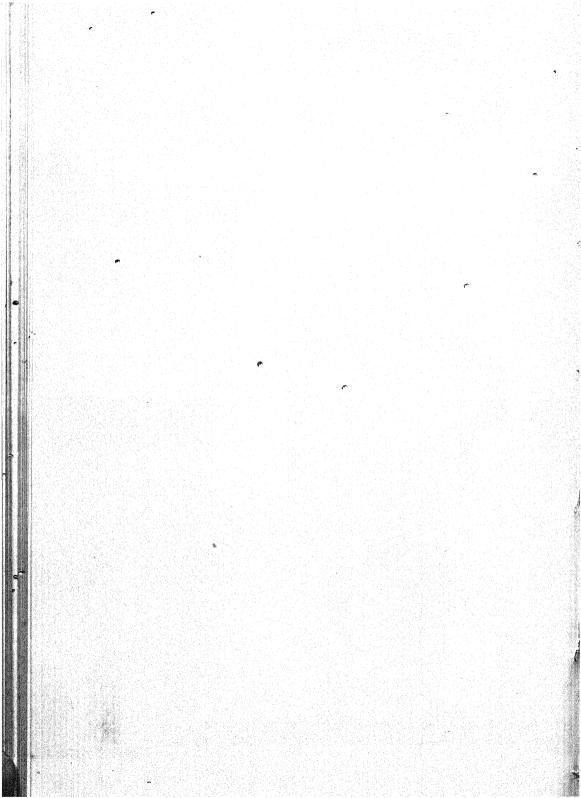


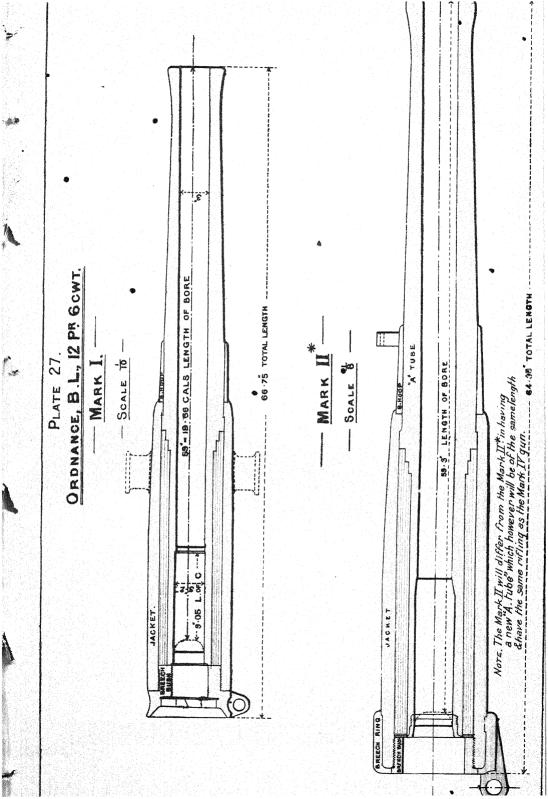


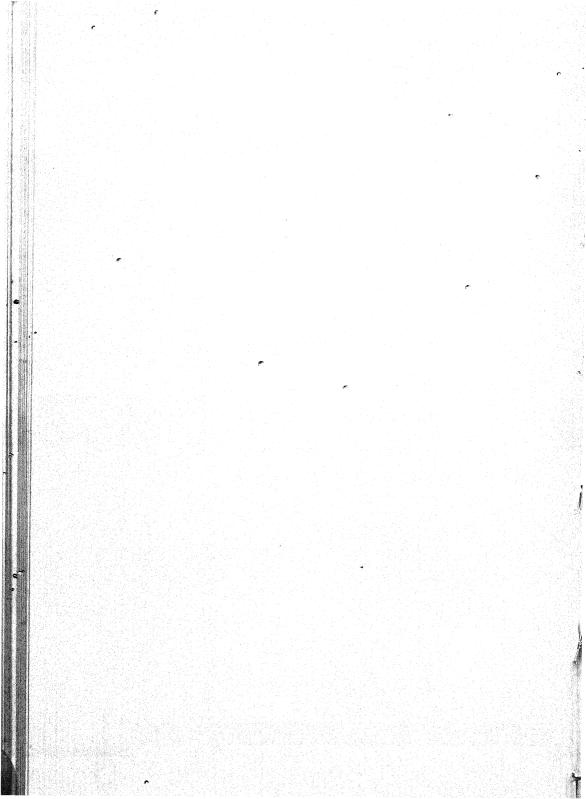




DIMM THE PORTION MUZZLE PORTION ORDNANCE B. L JOINTED, 10 PR. B. L. I JUNCTION OF MUZZLE AND BREECH PORTIONS. JUNCTION NUT STOP RING BREECH AND MUZZLE PORTIONS ASSEMBLED PLATE 26. BREECH PORTION

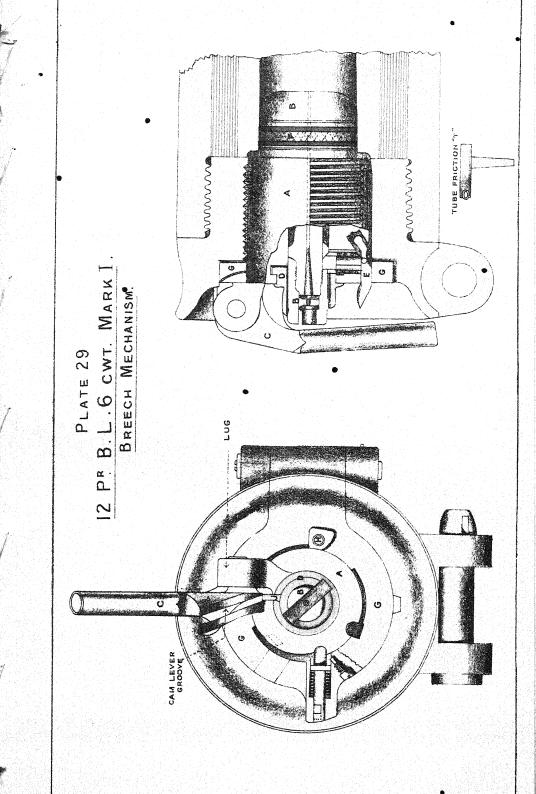




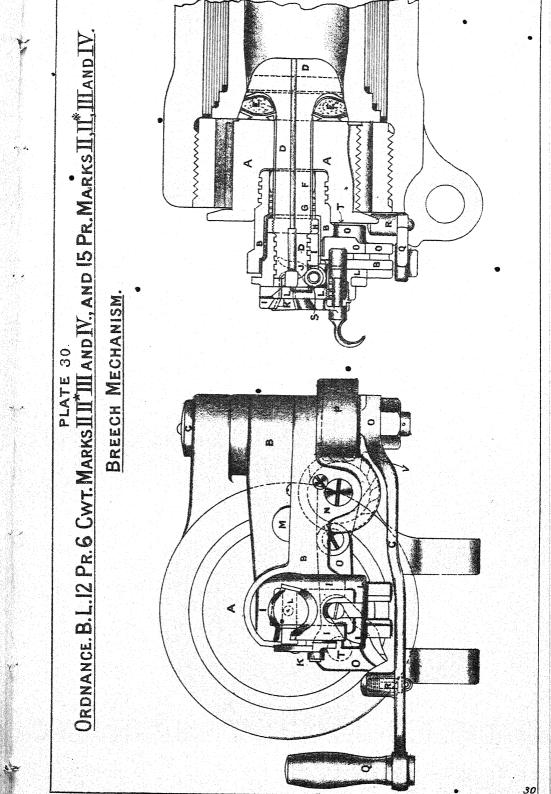


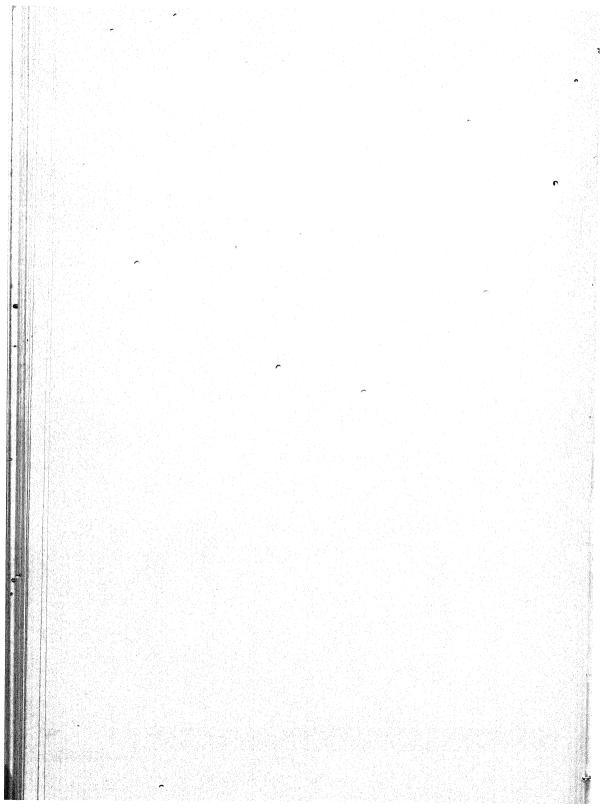
is prepared for a breech screw of the extendereal type whilst the latter is provided with NOTE. The mark IV & Gun is practically of the same Construction as the mark IV; the former ORDNANCE, B.L. 12 PR 6.CWT. LENGTH OF BORE-66 A TUBE -- 68" LENGTH OF BORE .. 71.05 TOTAL LENGTH ZI 05' TOTAL LENGTH. - MARK III MARK IV. SCALE 10 PLATE. 28. SCALE one of the Welin type. JACKET JACKET

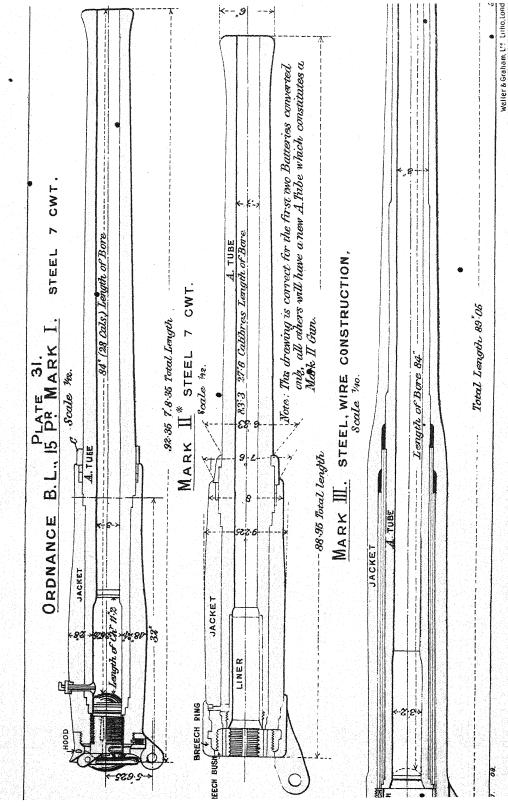


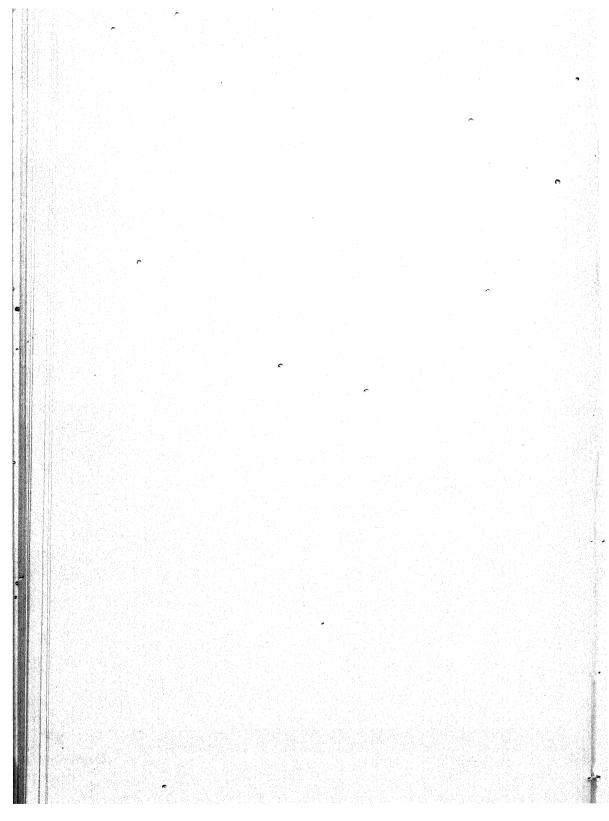




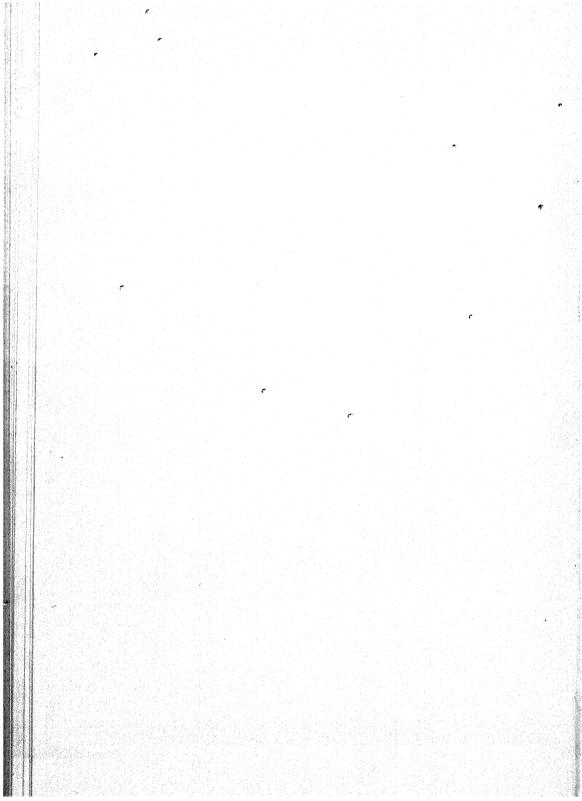


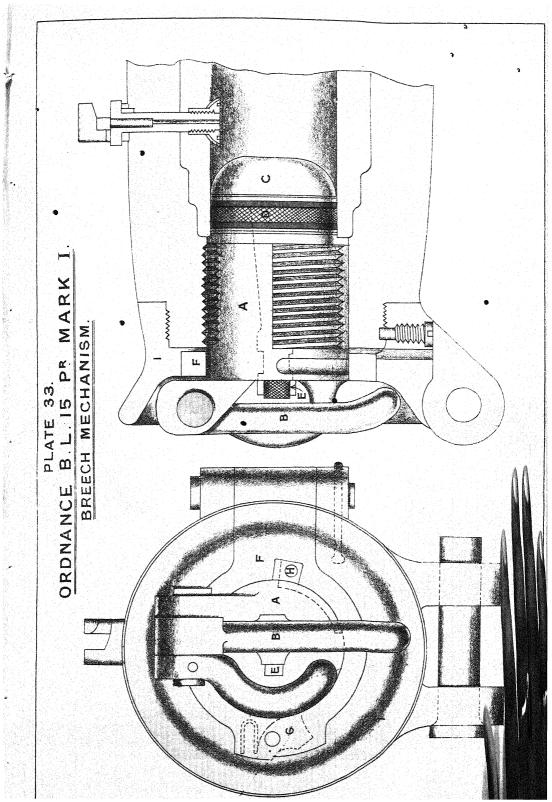


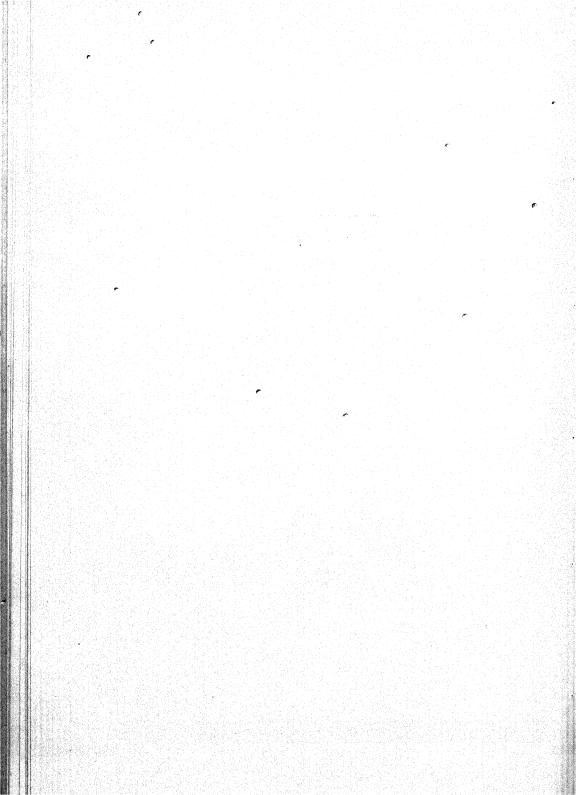


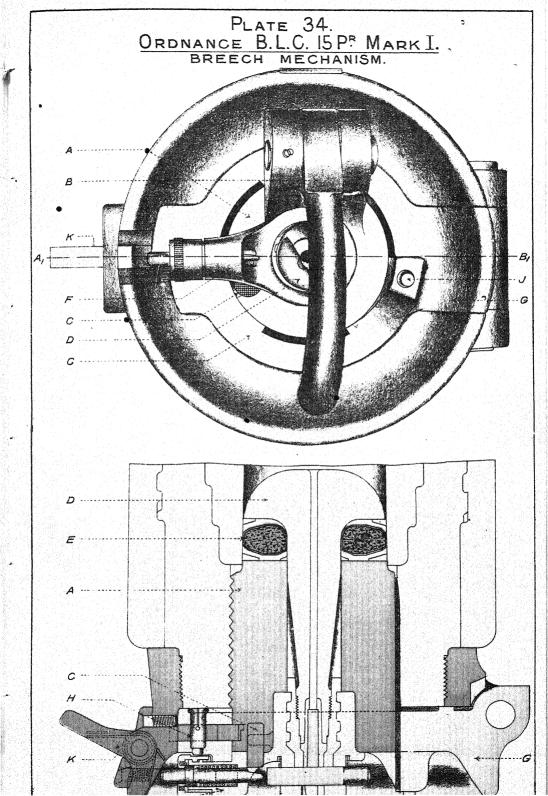


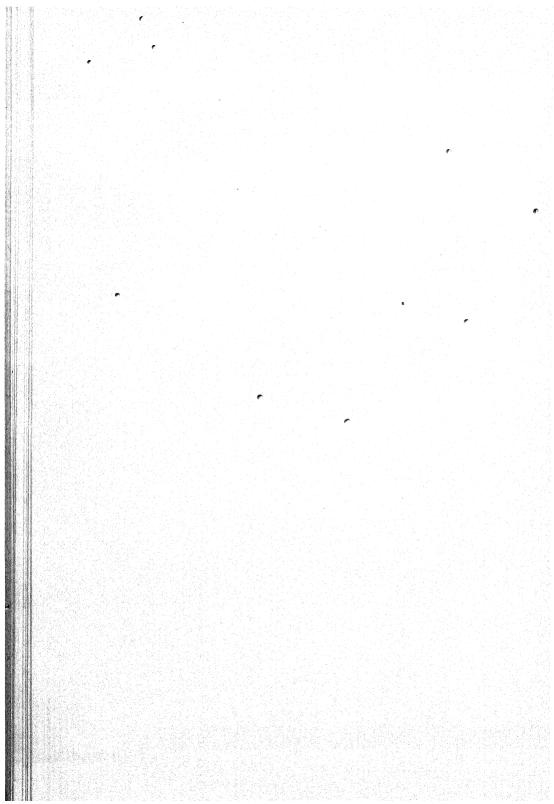
ORDNANCE B.L. 15 PR. MARK IV ORDNANCE B.L.C. 15 PP MARK I. STEEL WIRE CONSTRUCTION. -- LENGTH OF RIFLING. 71" 6 -- TOTAL LENGTH 92 35 -LENGTH OF BORE 84"0 PLATE 32. SCALE 1/10. SCALE /12. -89.05 TOTAL LENGTH -LENGTH OF BORE 84"--

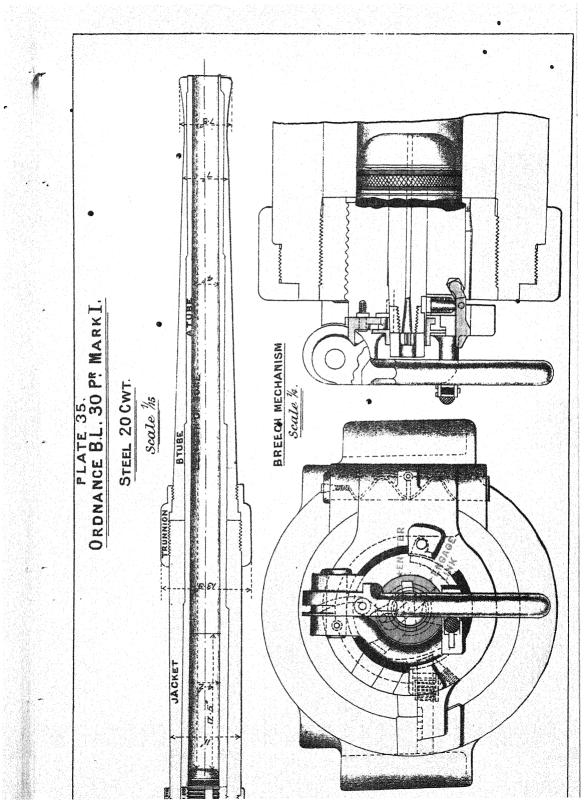


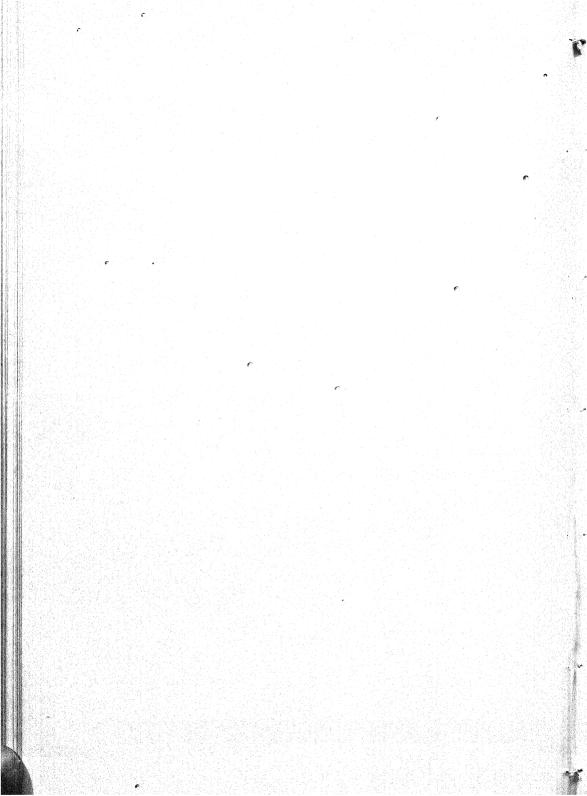


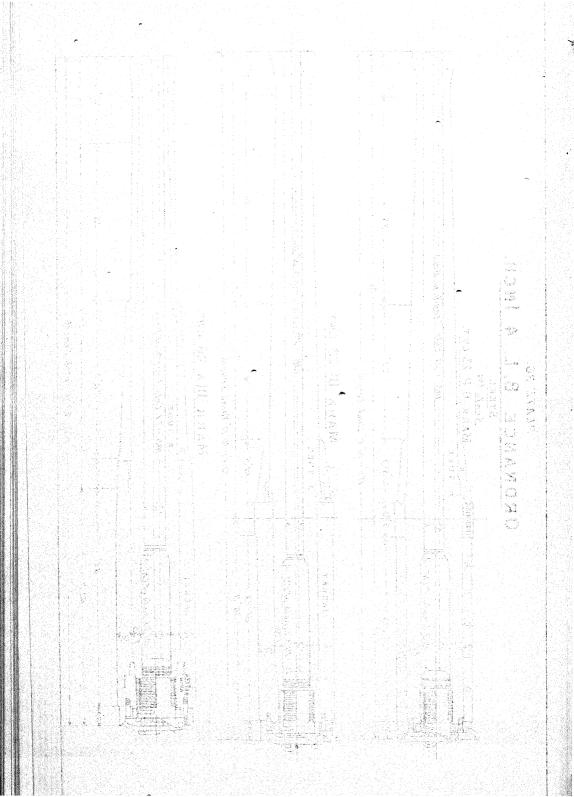


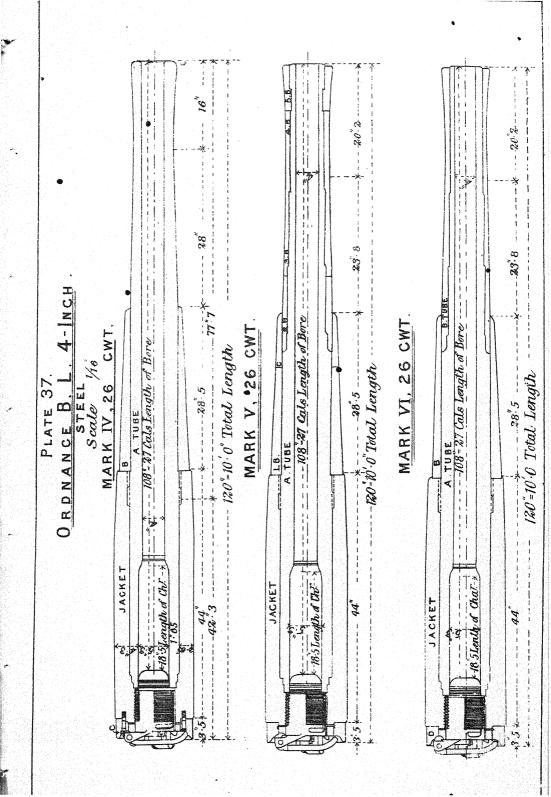


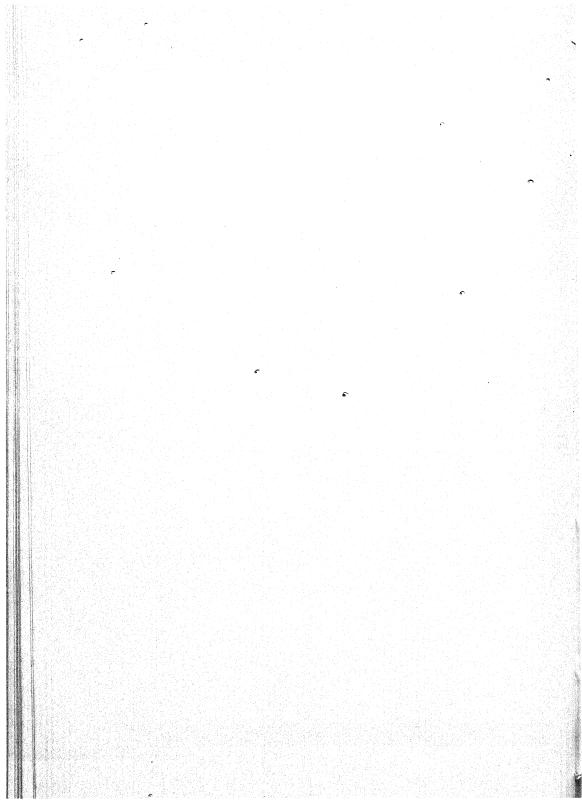










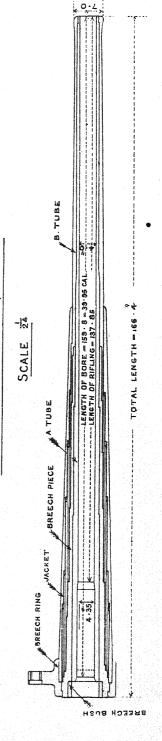


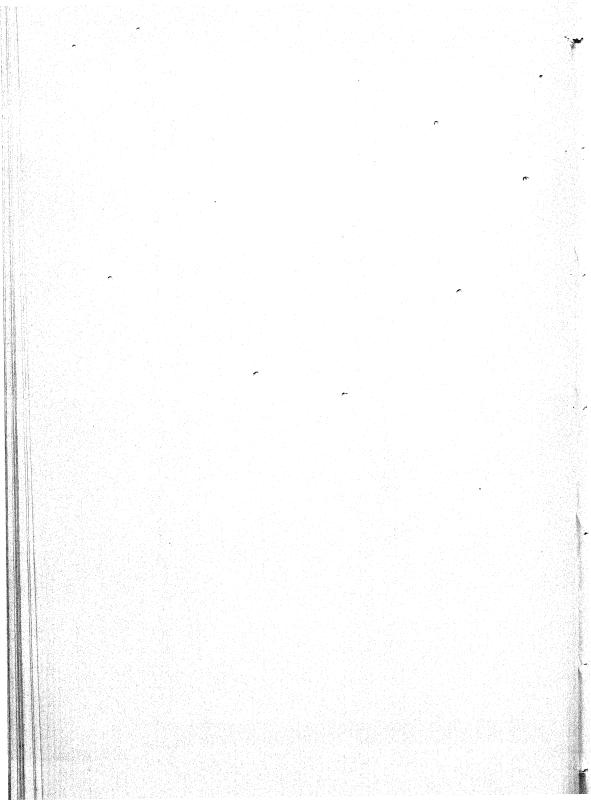
A TUBE MARK VII, NICKEL STEEL 42-CWT. ORDNANCE B. L. 4 INCH. PLATE 38. SCALE 28 ENGTH OF BORE = 2DI 2 = 80.3 GALS.
LENGTH OF RIFLING = 171.6 IMNER A TUBE A TUBE. JACKET BRREECH RING

BKEKCH BOSH

MARK VIII. NICKEL STEEL, 26 CWT.

TOTAL LENGTH =208.45





Σ SCALE 4

ORDNANCE, B. L., 4-INCM. MARKS III TOVI

PLATE 39.

BREECH MECHANISM

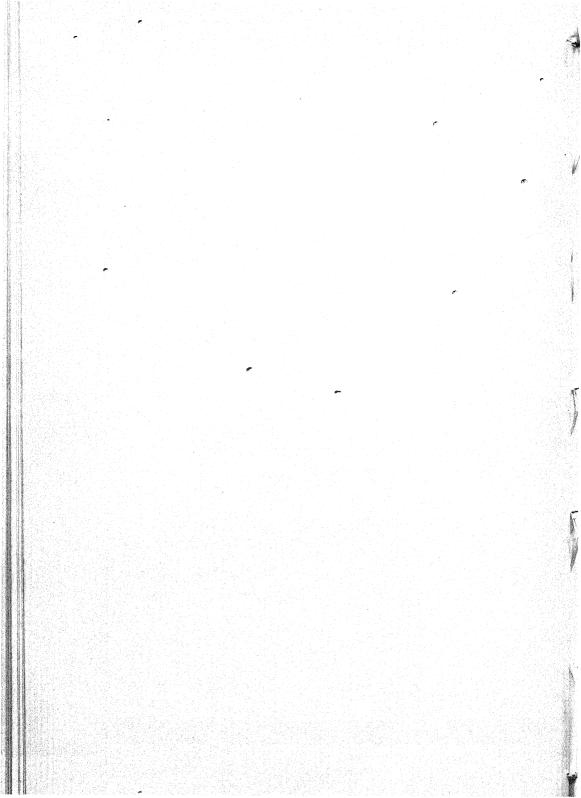
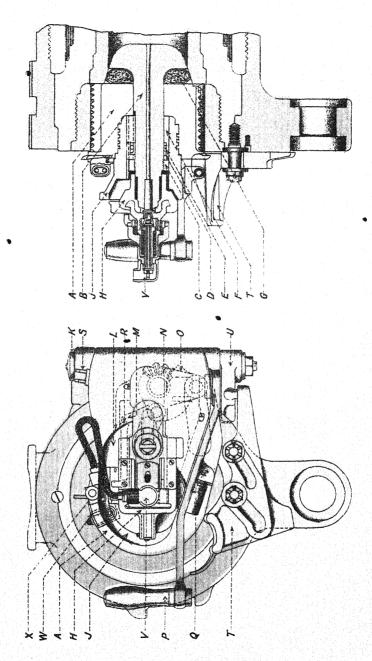
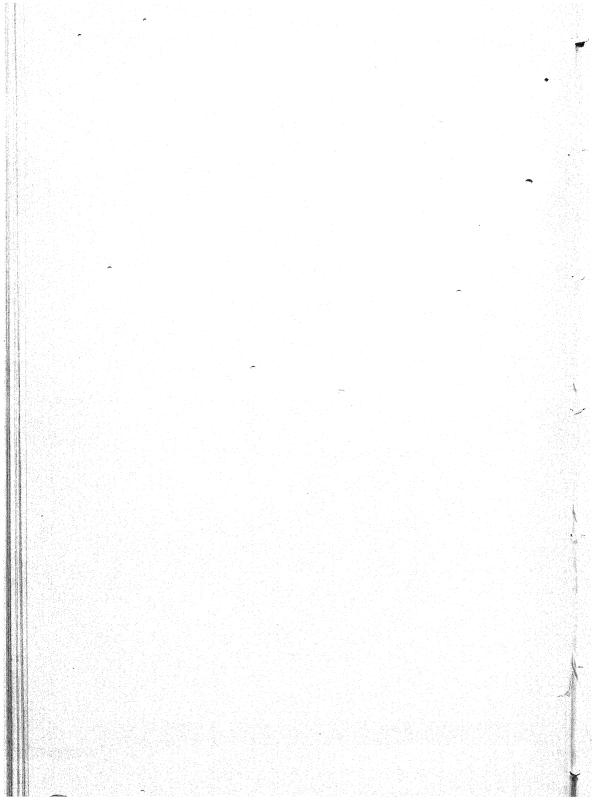


PLATE 40.

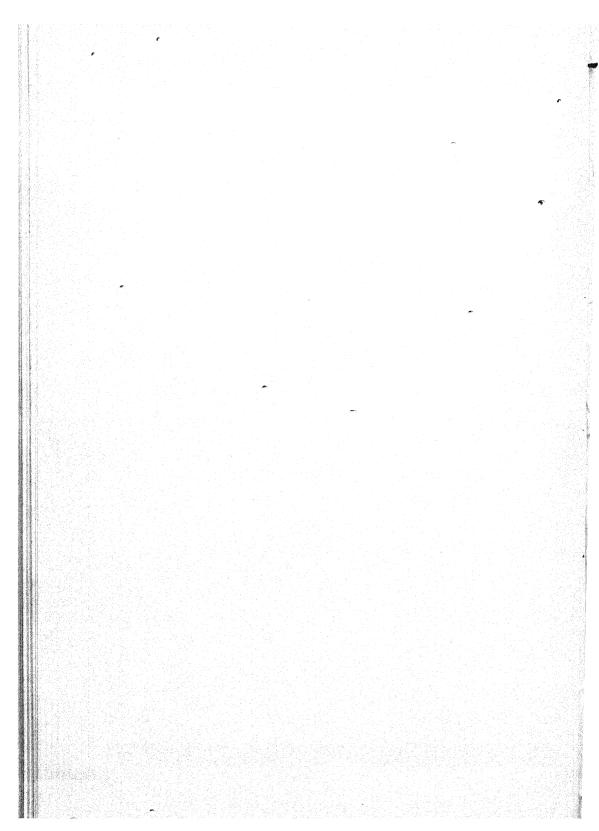
ORDNANCE. B. L., 4 INCH "A" MARKS VIII AND VIII





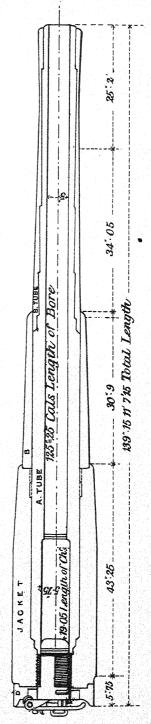
-125.35 - 25.1 Cals. Length of Bore. MARK ID ORDNANCE B. L. 5-INCH --139.5-117".5 Total Length. - '15 125'35-25 Oals Length of Bore. 125-25 Cals. Length of Bore. 130'15-11'-7"15 Total Length 139'5-11' 78" Total Length MARK III MARK Hey ring in three parts Scale 1/20 STEEL A. TUBE 8. HOOP T. HOOP A HOOP JACKET Slength of the C HOOP S S JACKET 3.625 D. MOOP

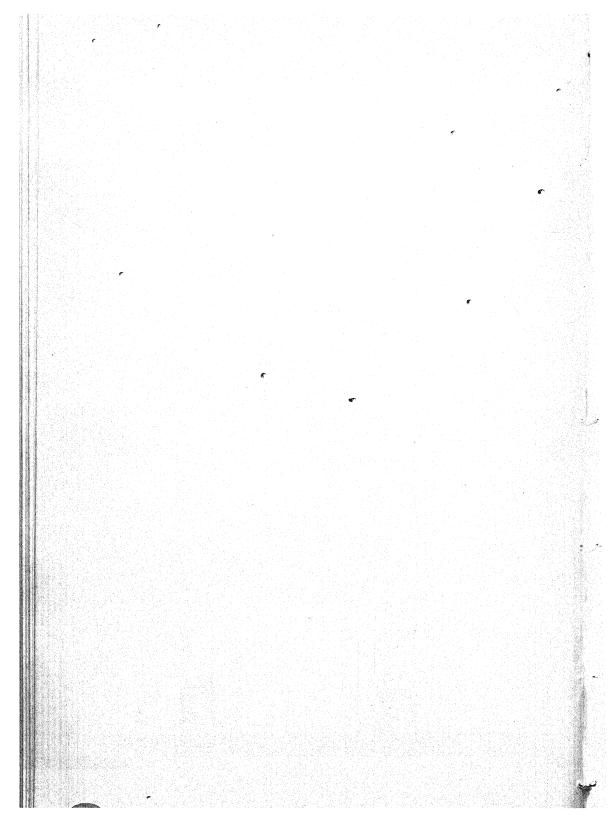
PLATE 41

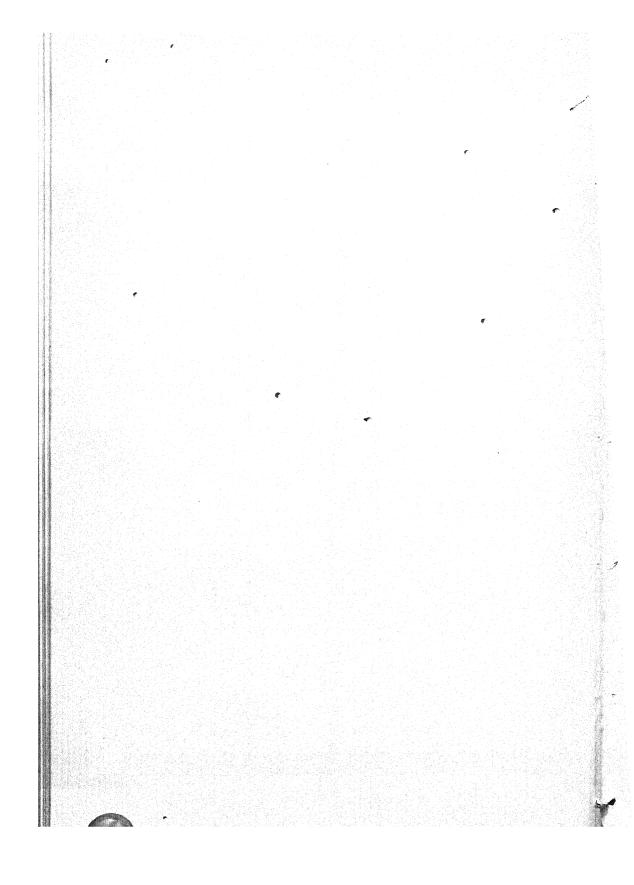


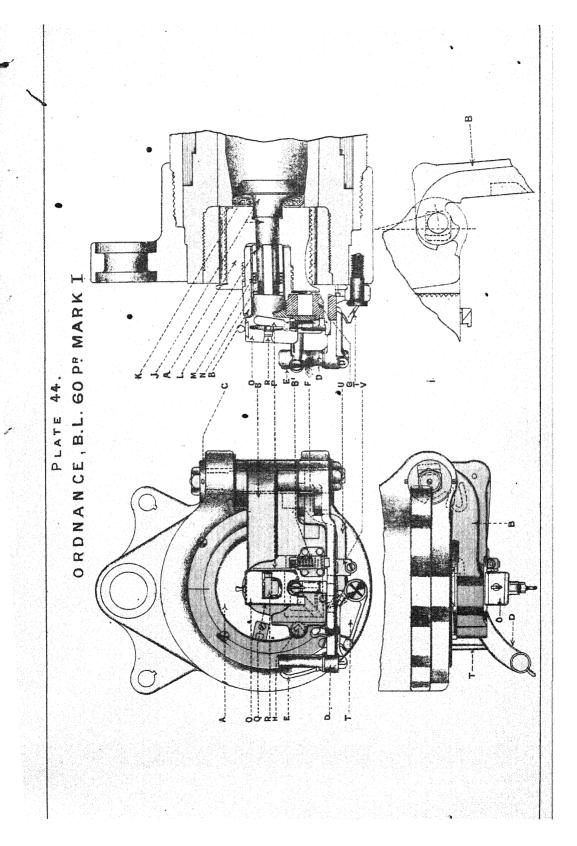
125-25 Cals Longth of Bore 5 INCH - 139:15-11'7:16 Total Length MARK IV. PLATE 42 STEEL Scale /20 ORDNANCE 43.25 JACKET

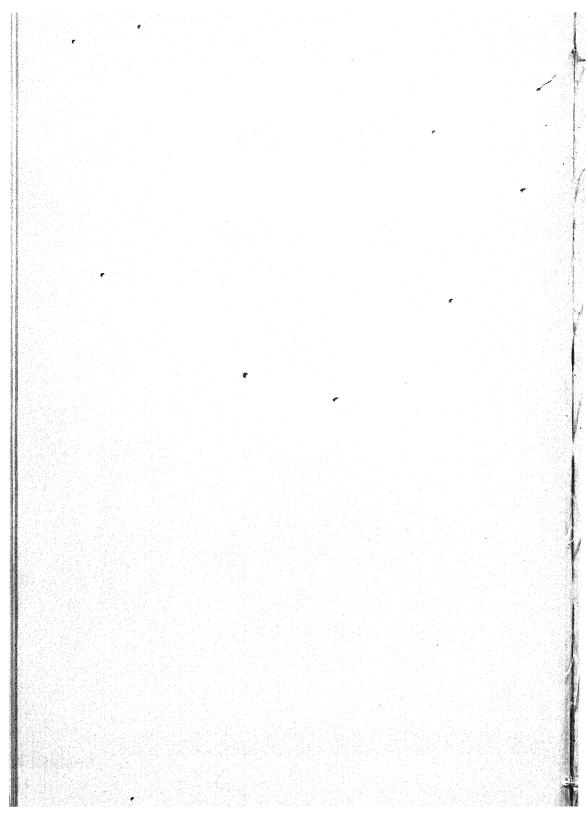




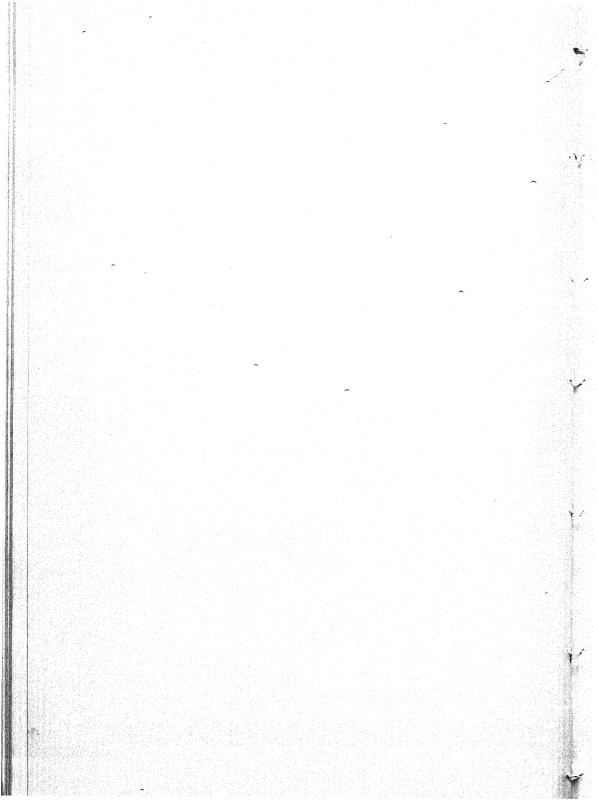








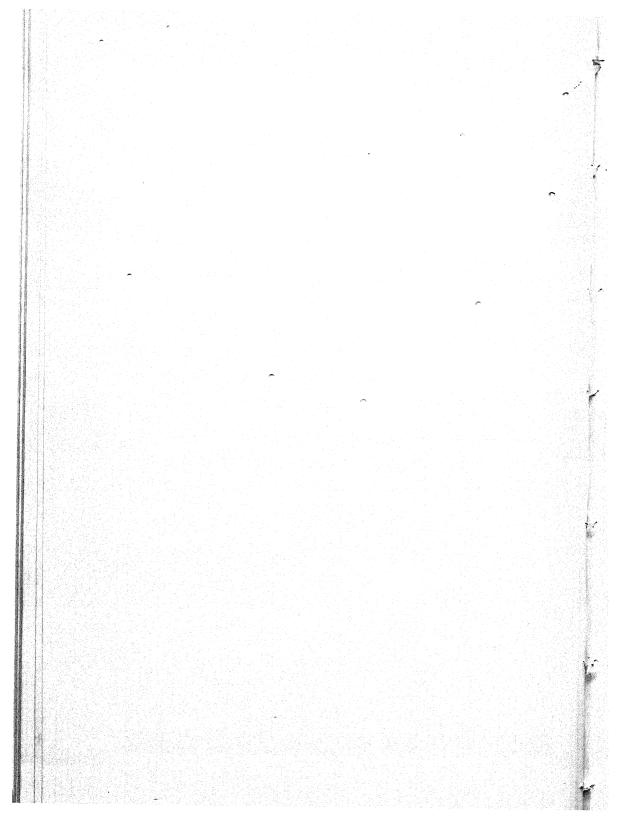
20. S BLOCK EXTRACTOR. Nº 4. BREECH: OPEN NEW TUBE INSERTED OF ACTION 45. Nº3 PLATE BLOCK RETAINING TUBE <u>a</u>. TUBE DESCENDING 09 ۵ آ N. 2. ORDNANCE UNSEATING ** TUBE Nº186. BREECH

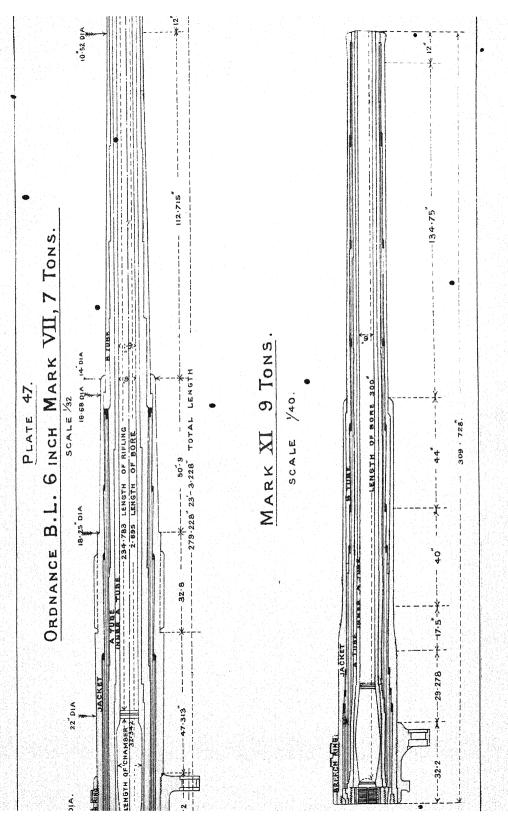


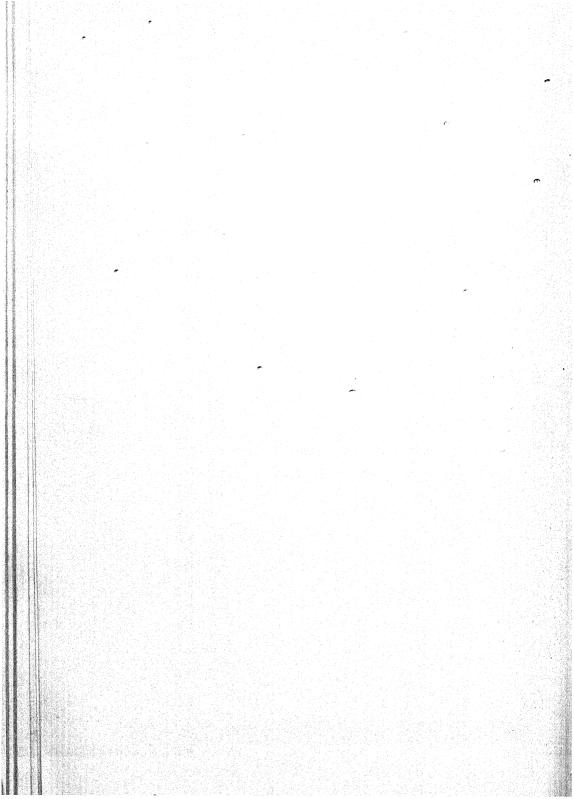
MARK VI .5 TONS Scale 1/26 2. B. TUBE 442"4----v 153.2 - 25.5 Cals. Length of Bare 156-26 Cals. Length of Bore 173'5-14 5'5 Total Length MARK III. 5 TONS. TONS 5 Total Length 170'7 Total Jength ---- 156 26 Cals Langth of Bore MARK IV. 5
Scale 1/2
B. TUBE Scale /26. A TUBE 1. B. TUBE TRUNKHON A TUBE JACKET BREECH PIECE 3.C. 2.C. BREECH PIECE 26.75 Length of Chr -- " 2675 Length of Char BREECH- PIECE 4.C

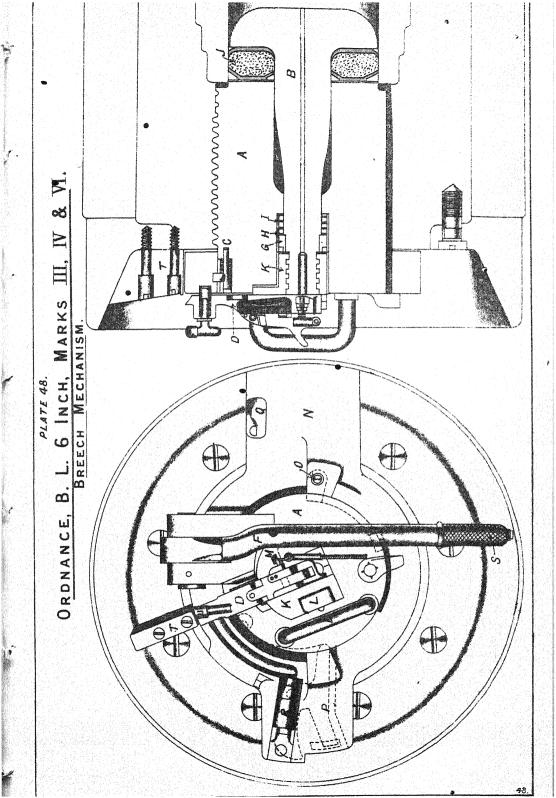
ORDNANCE B.L. 6 INCH

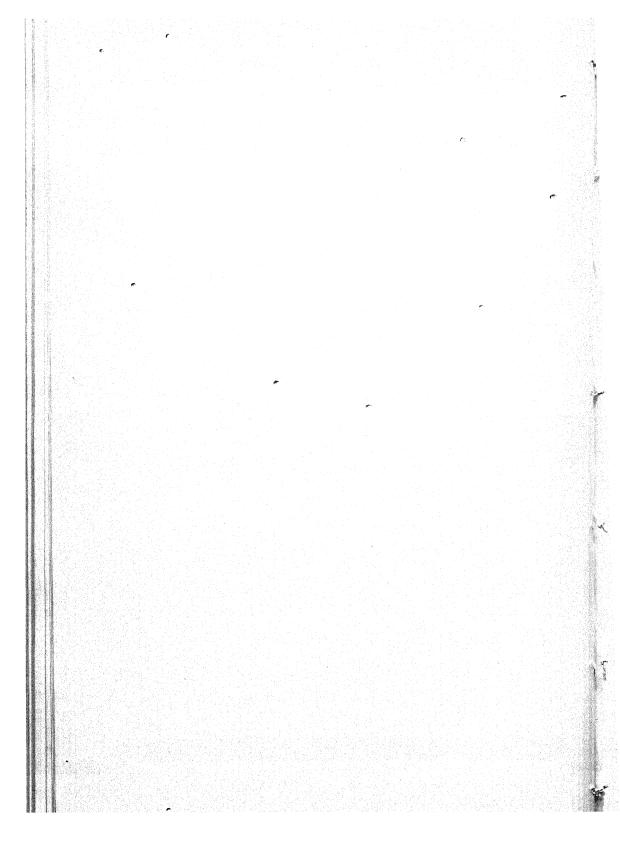
PLATE 46,

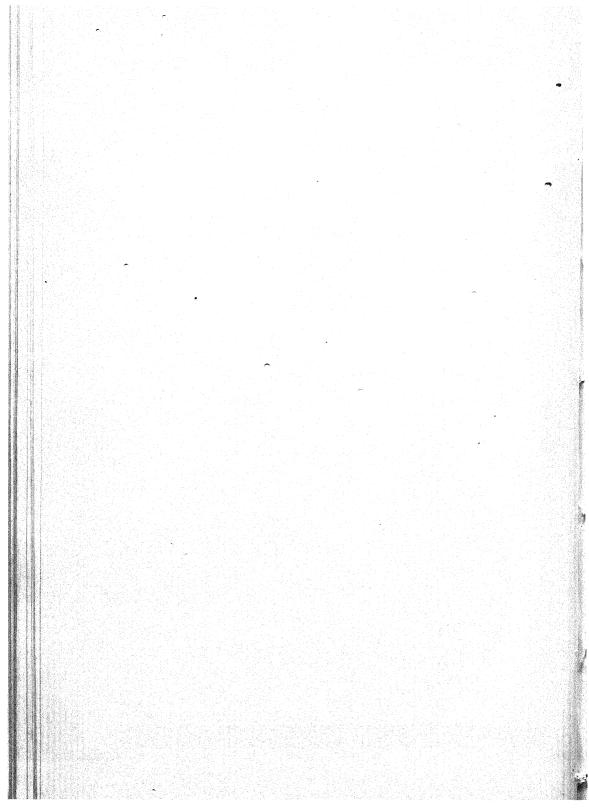


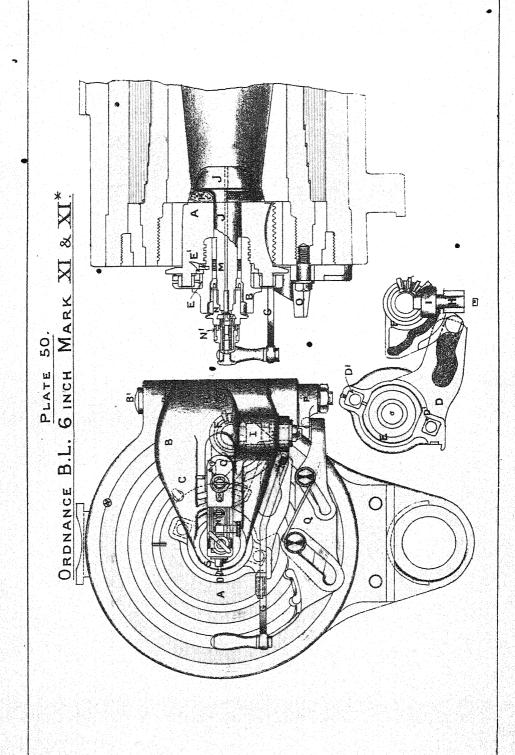


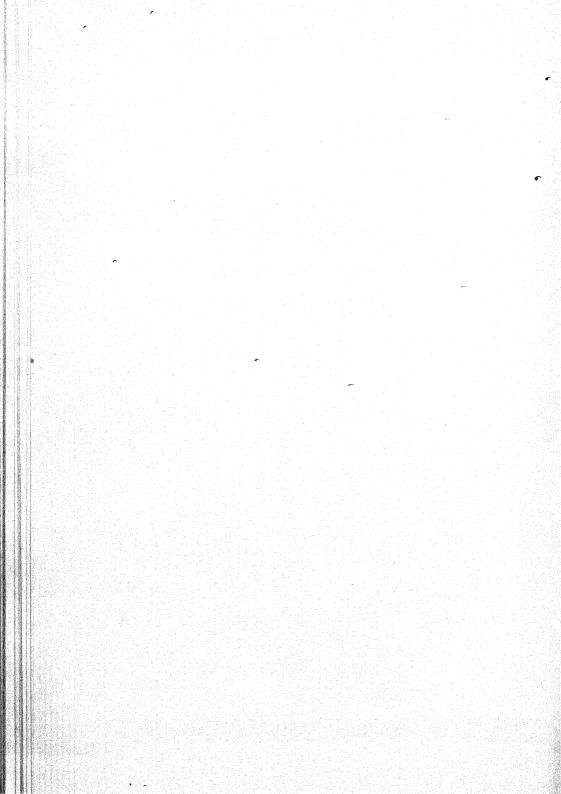




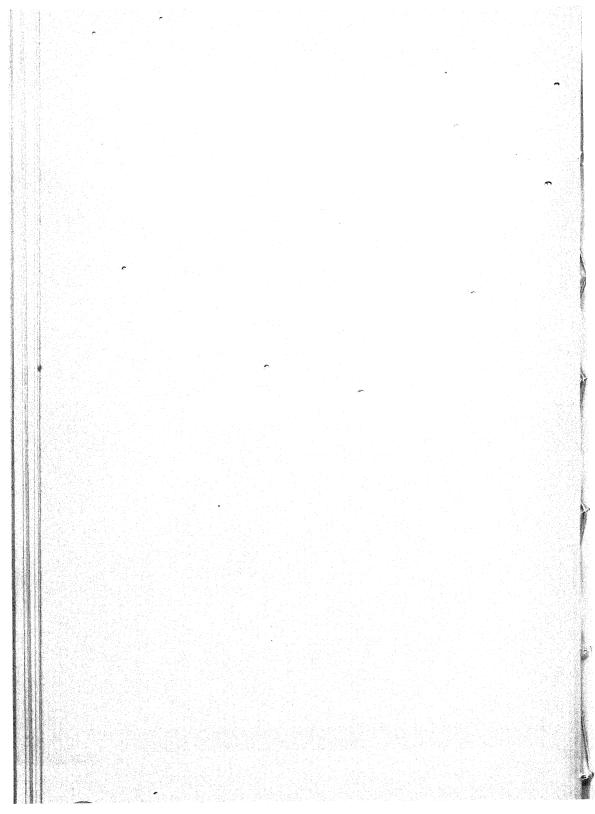






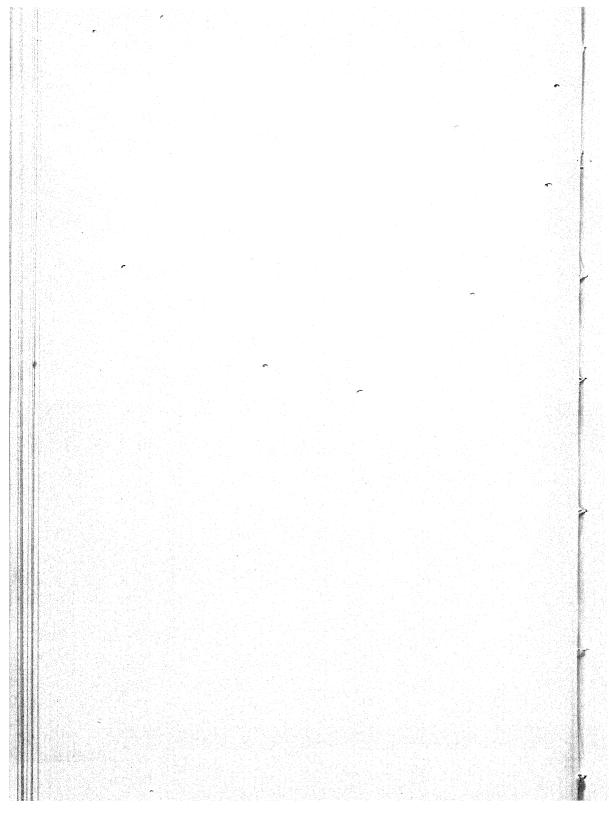


ORDNANCE, B. L. C. 6 - INCH. BREECH MECHANISM. SCALE & PLATE 51.



143.85" B. TUBE. -120.88 ---ORDNANCE B.L., 7.5 INCH WIRE TUBE LENGTH OF BORE 375.0 50 CALS. -- LENGTH OF RIFLING 324-668 B TUBE. 4 TONS --- TOTAL LENGTH 388.2 MARKIII IG TONS SCALE 18TH -- LENGTH OF BORE-375.0 . 50 CALS-MARK I 14 TONS LENGTH OF RIFLING . \$16.0" STENCTH OF BORE 337 5 45 CALS TOTAL LENGTH OF GUN 348.2-TOTAL LENGTH=386.7" 52. PLATE MARKIL A TUBE NNER TUBE ACKET SPEECH BUSH BREECH BUSH

1

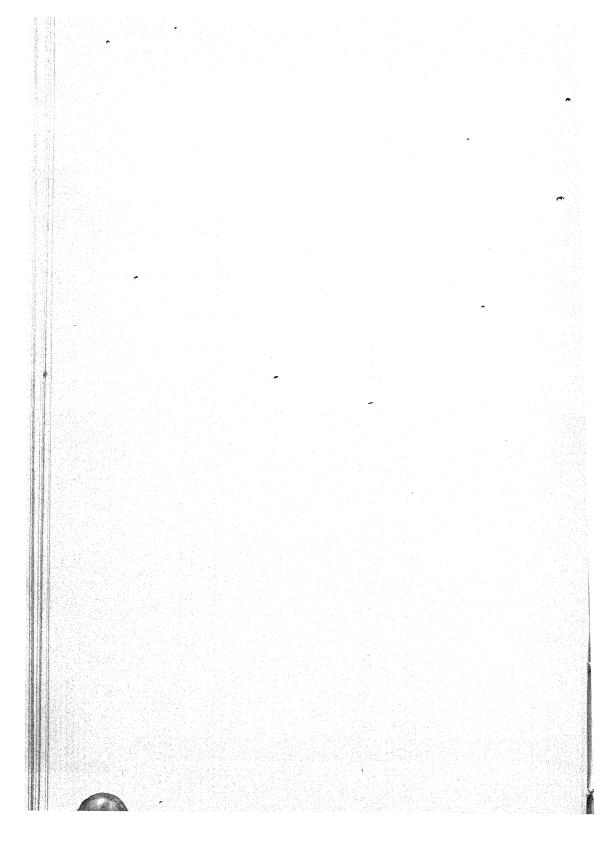


ORDNANCE B.L., 7.5 INCH WIRE, -LENGTH OF BORE 375.0 50 CALS LENGTH OF RIFLING 325. 425 MARKIV. 16 TONS PLATE 53. SCALE 48. B TUBE ATUBE BREECH BUSH JACKET

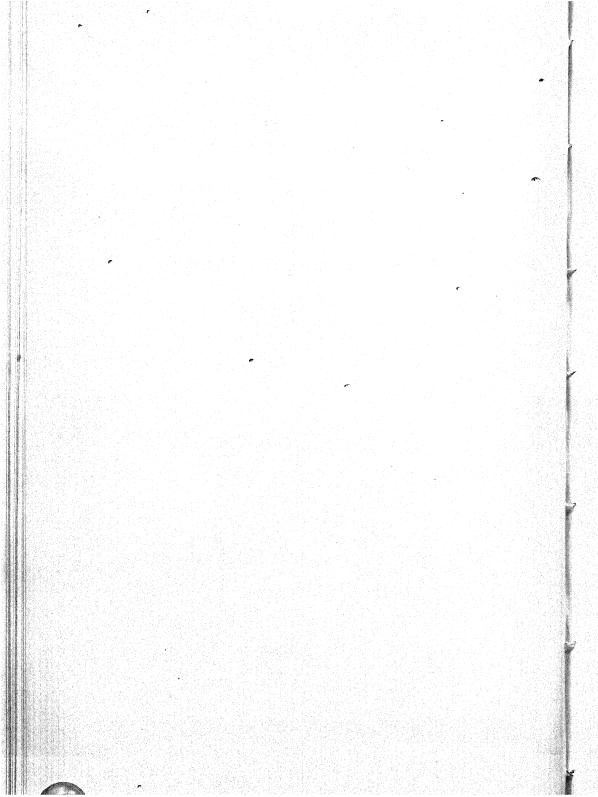
MARK V 15 TONS.

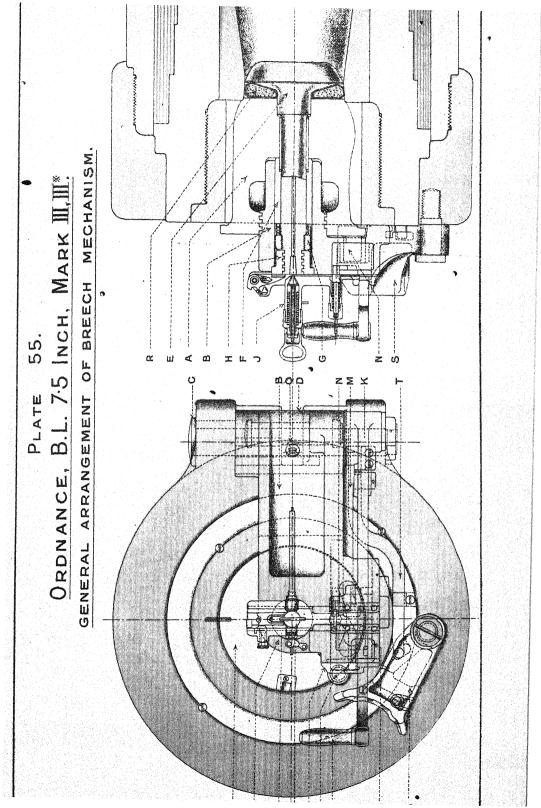
-TOTAL LENGTH 386'7

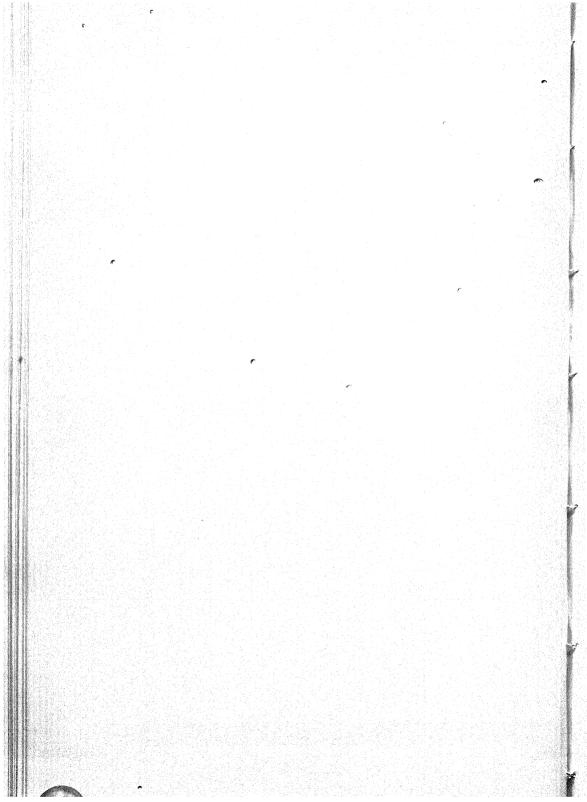
B TUBE LENGTH OF BORE-375.0"- BD-CALS - TOTAL LENGTH=388.7 INNER A TUBE BREECH BUSH BREECH RING

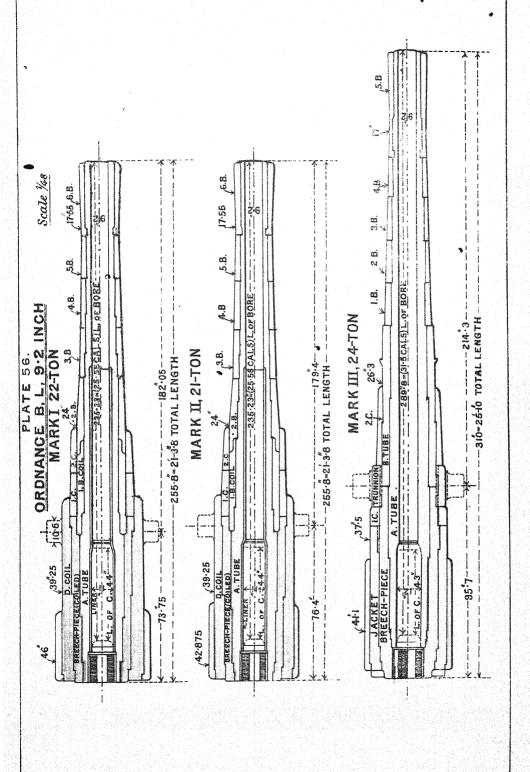


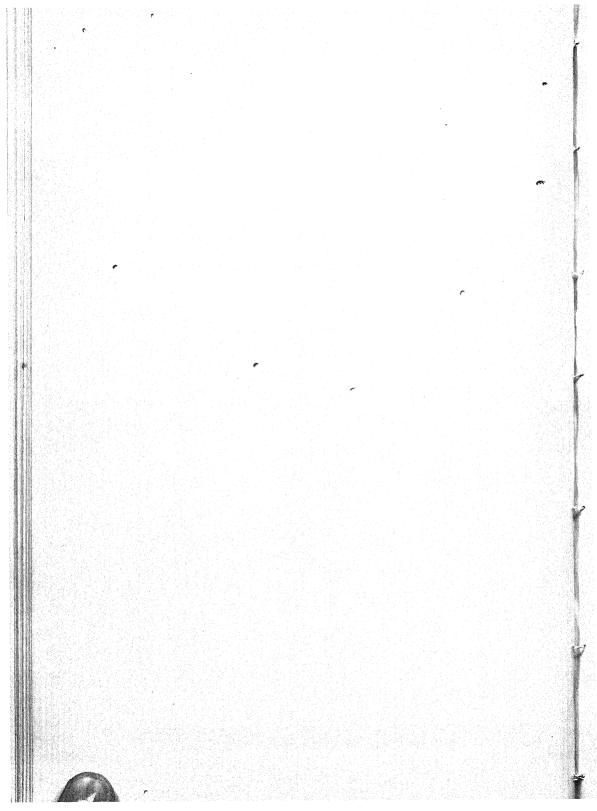
ORDNANCE B. L. 7.5 INCH MARK BREECH MECHANISM 8 D Weller A Graham, LT

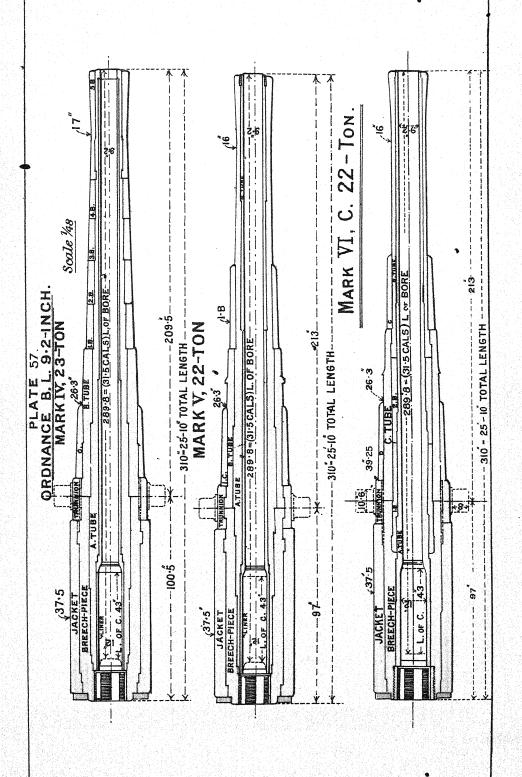


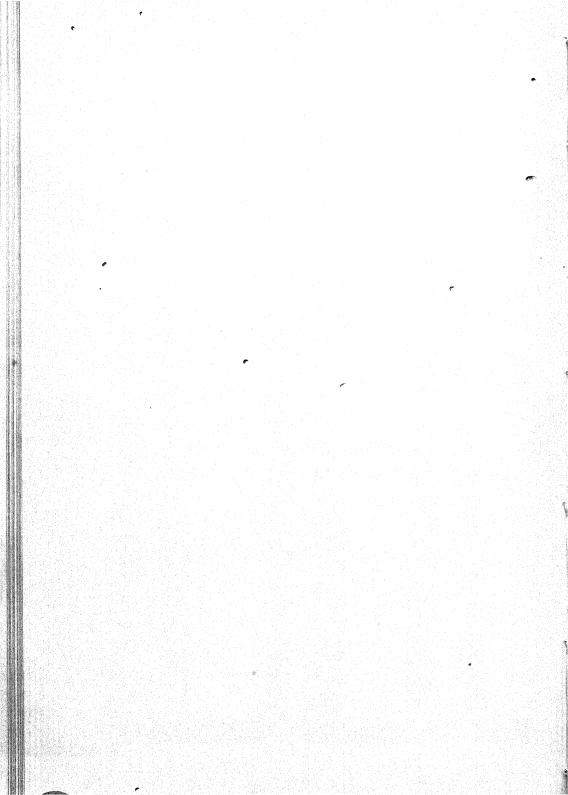


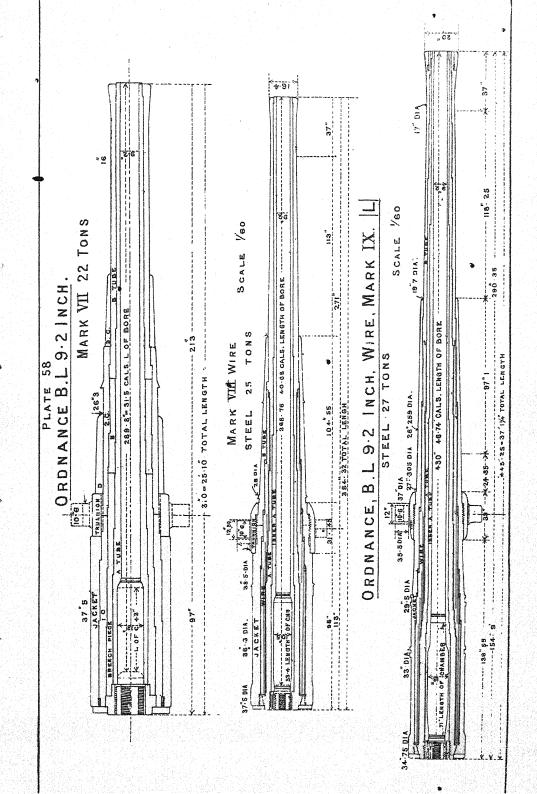


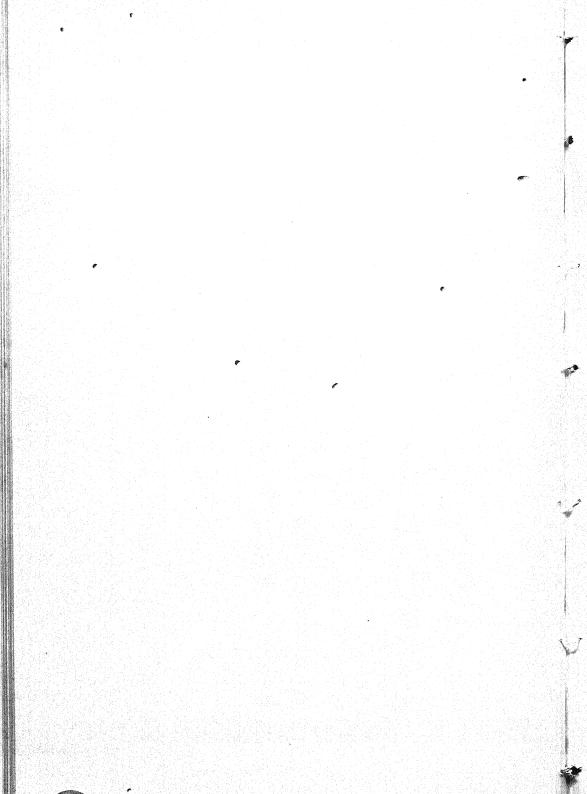


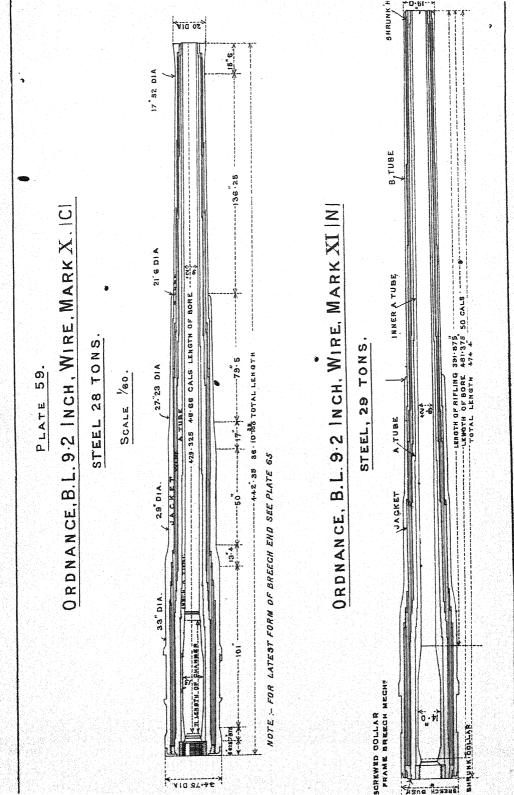


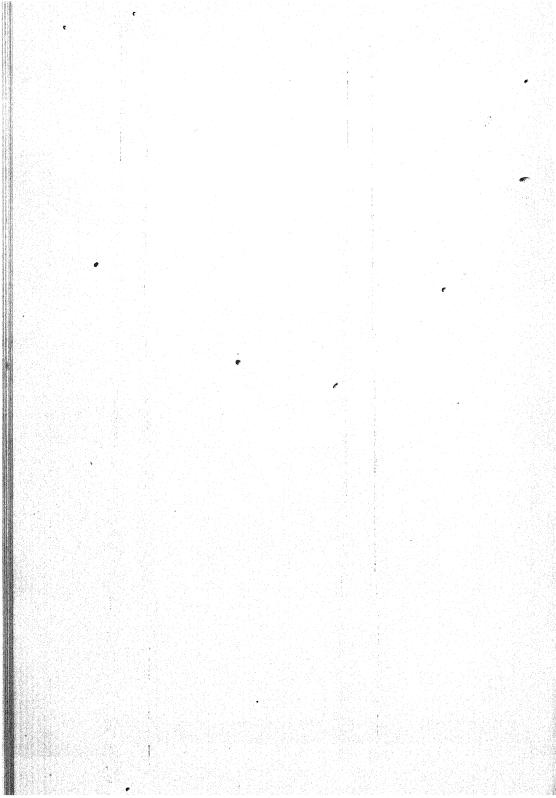


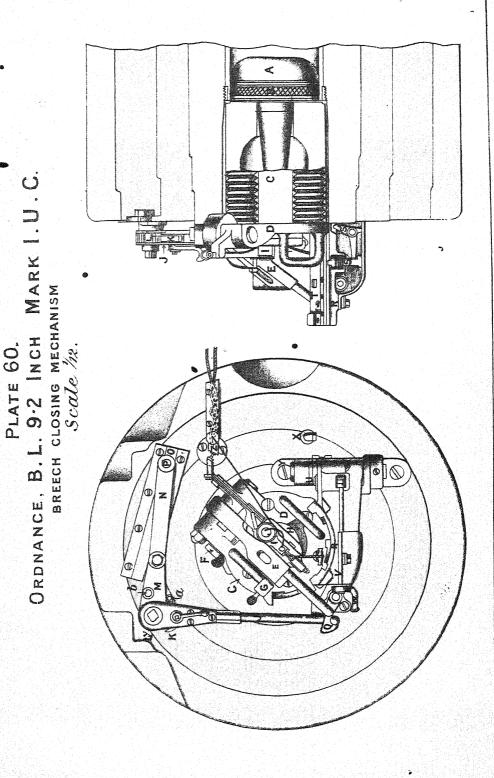


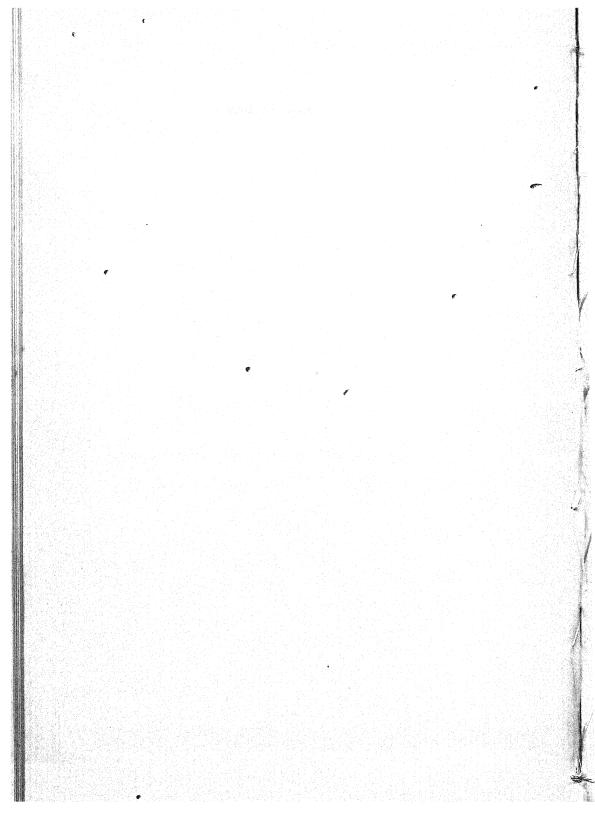










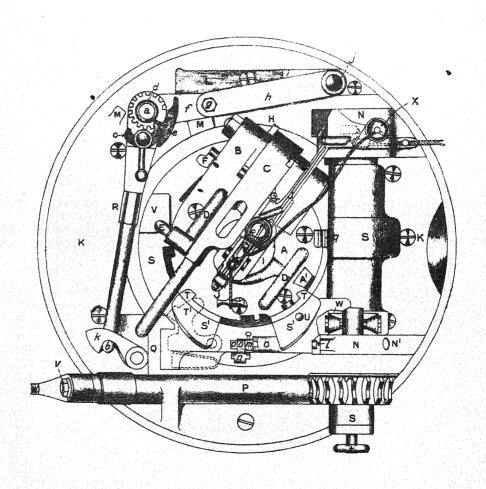


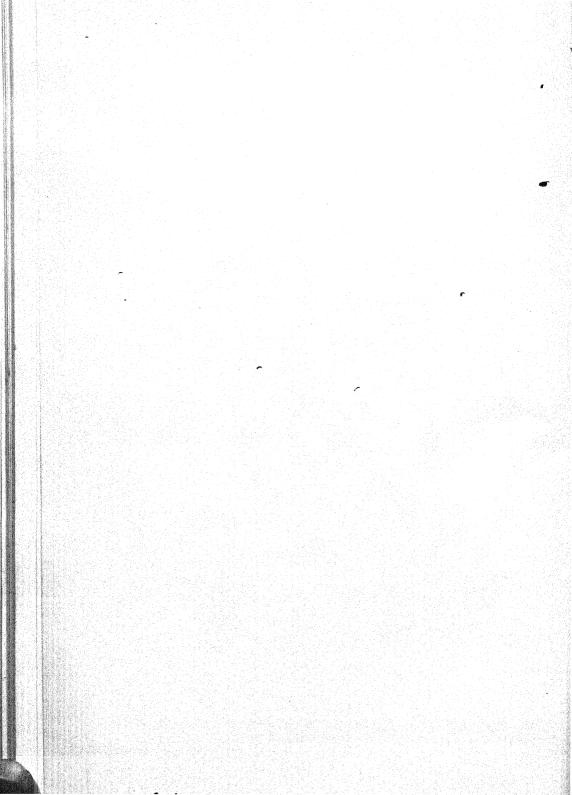
ORDNANCE, B. L., 9.2-INCH MARKI. BREECH CLOSING MECHANISM. Scale 1/12



PLATE 62.

9.2 INCH B.L. MARK VI BREECH MECHANISM (L.S.)





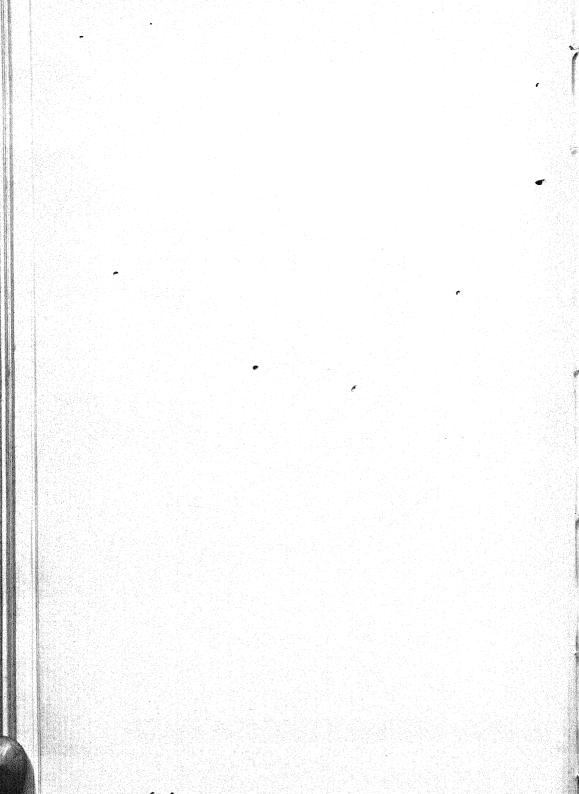
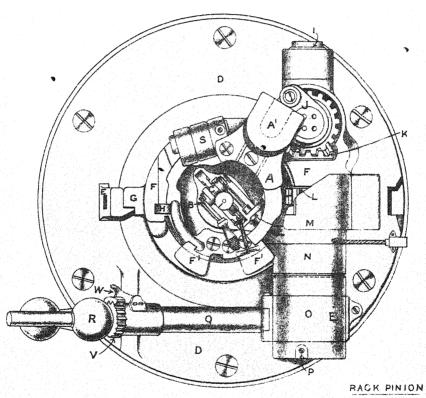


PLATE 64.

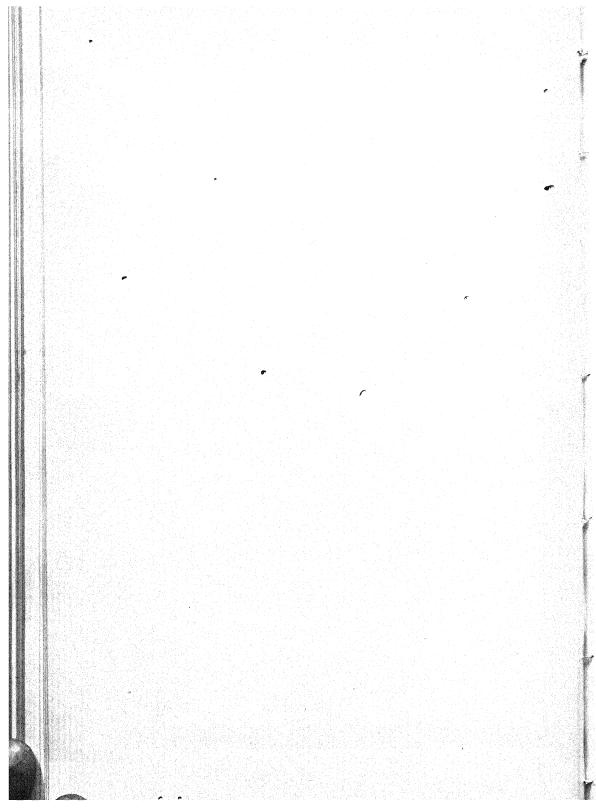
9 · 2 - IN. B. L. MARK IX.

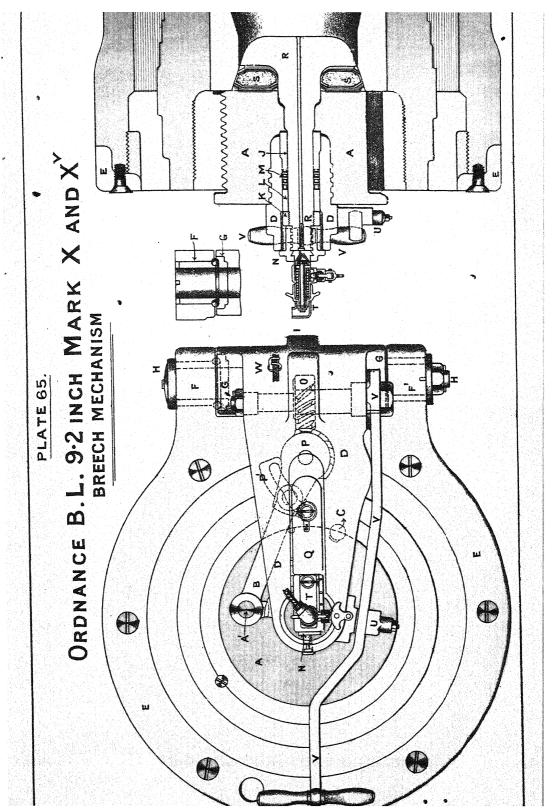


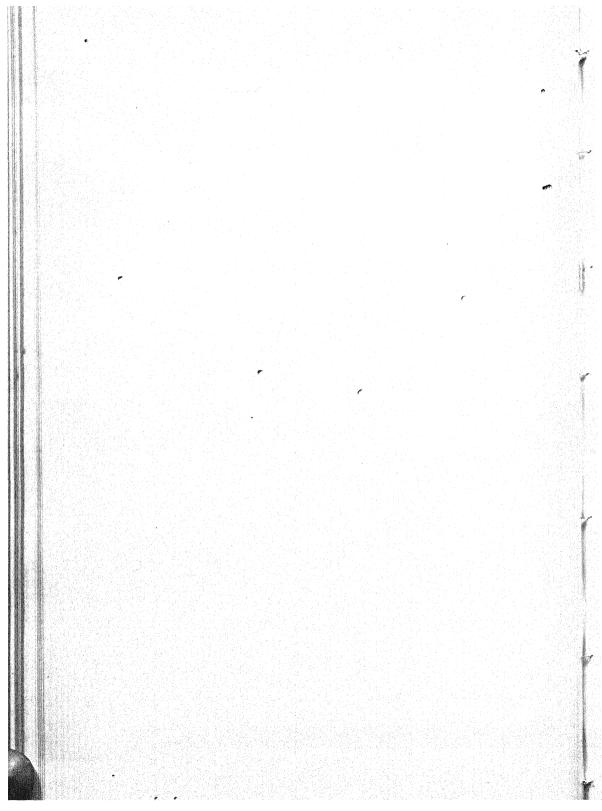


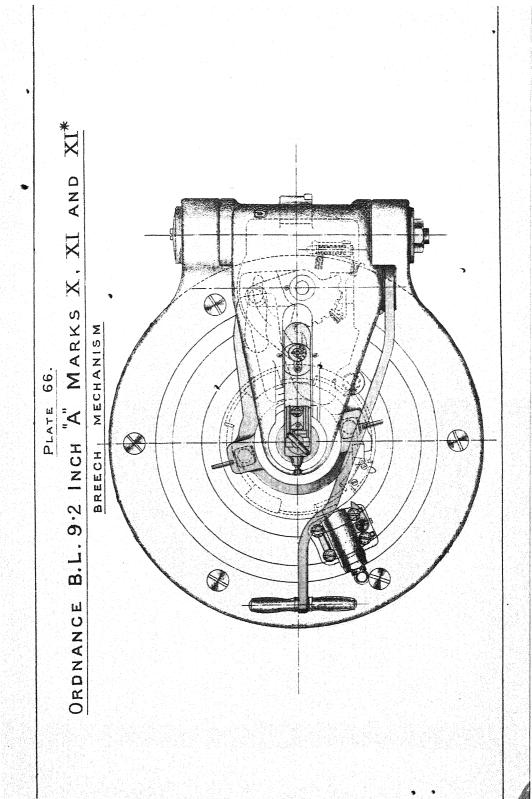


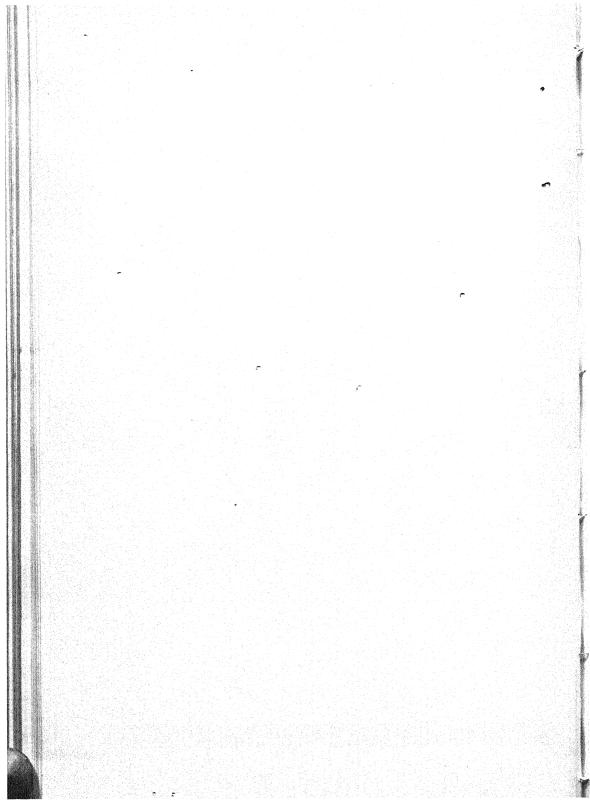


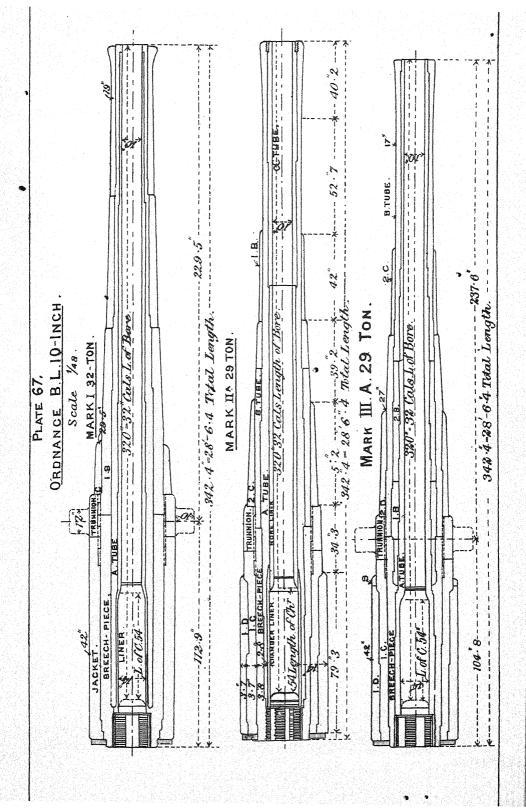


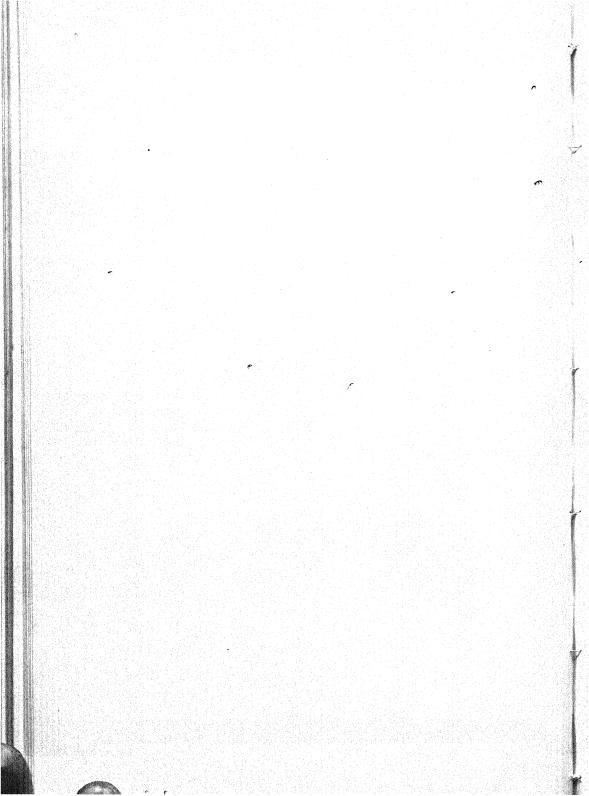


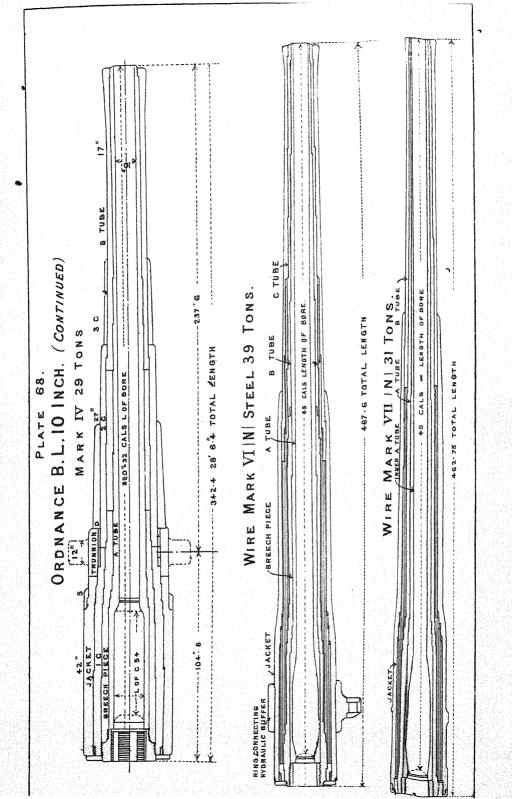


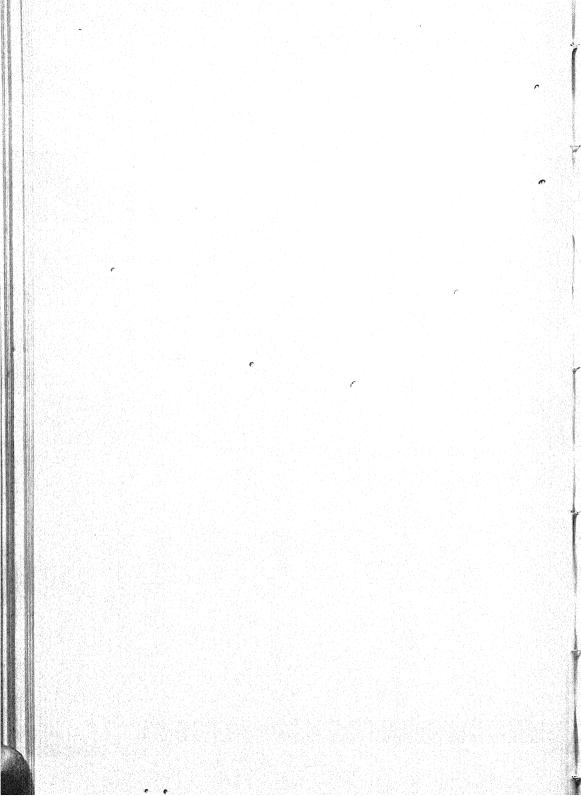


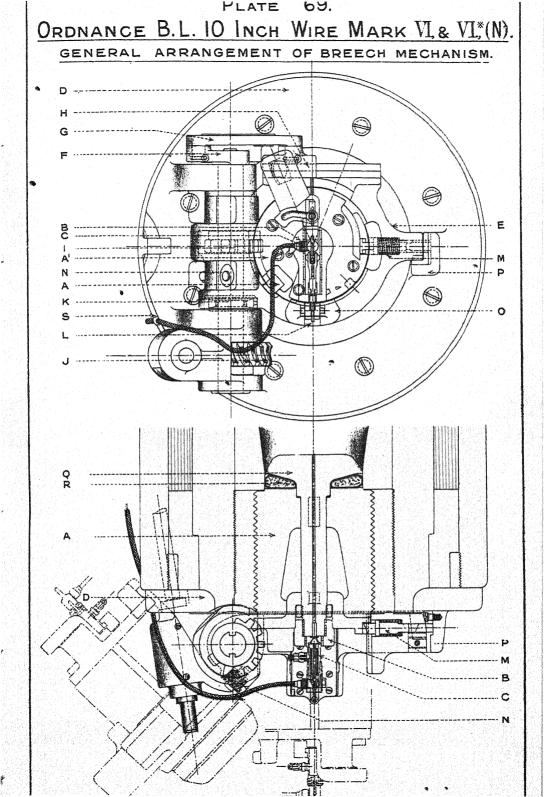












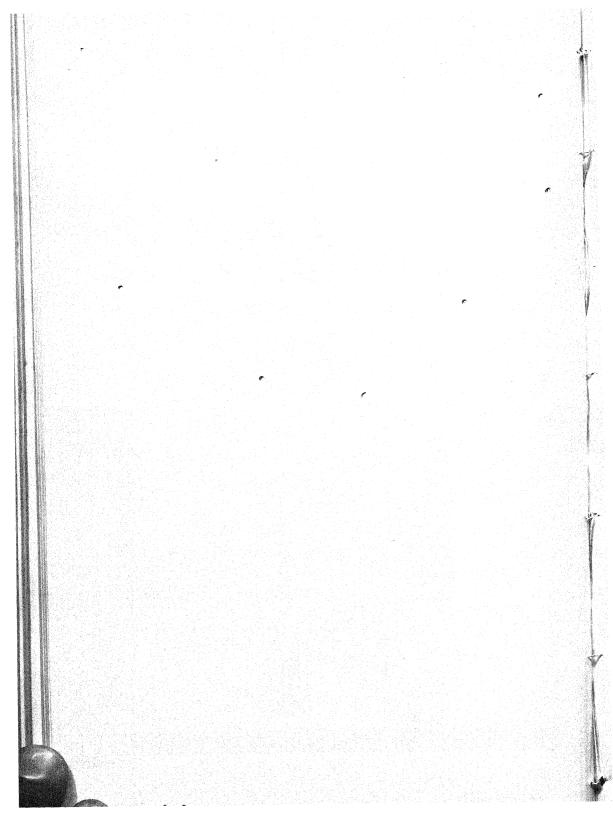
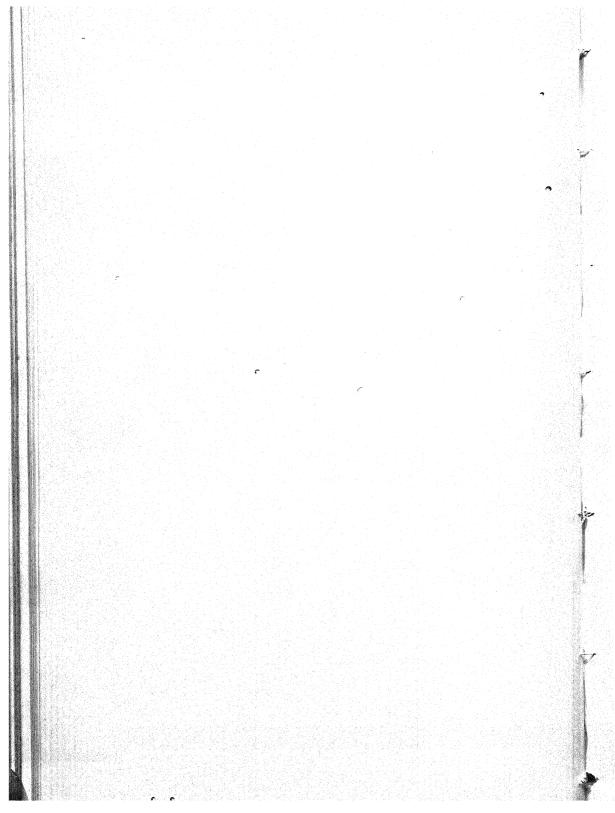
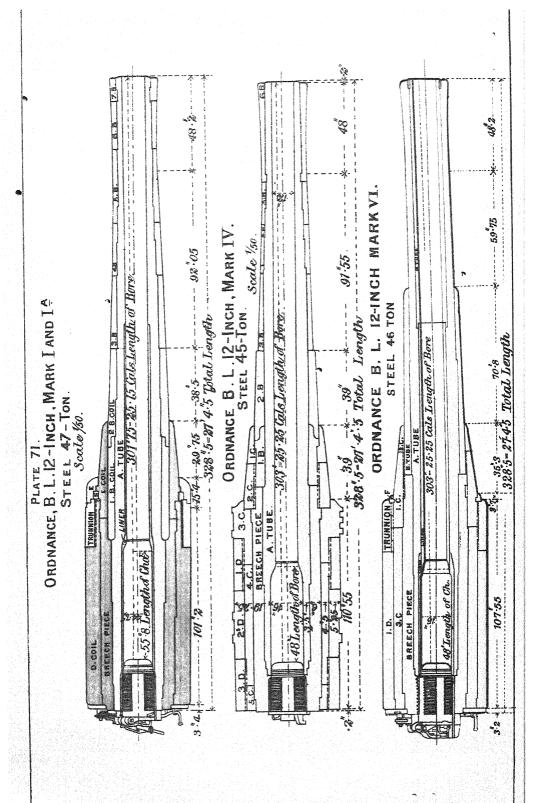
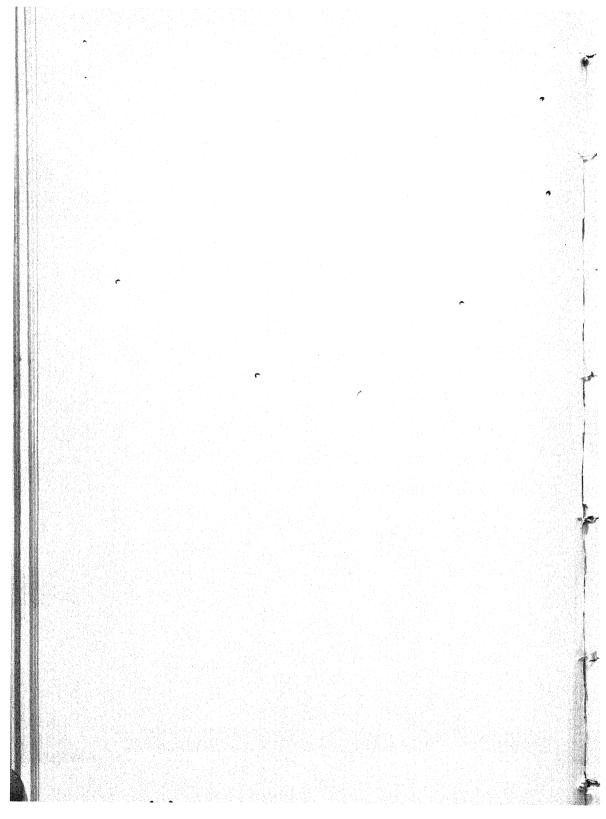


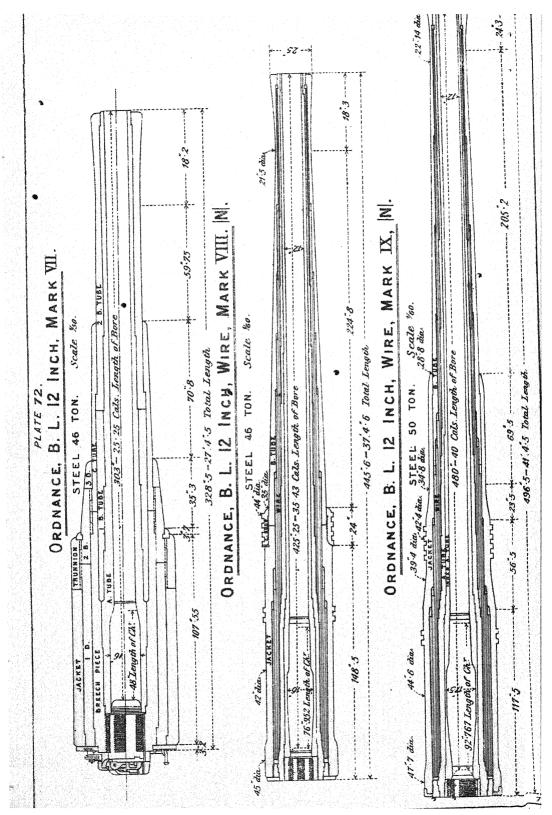
PLATE 70

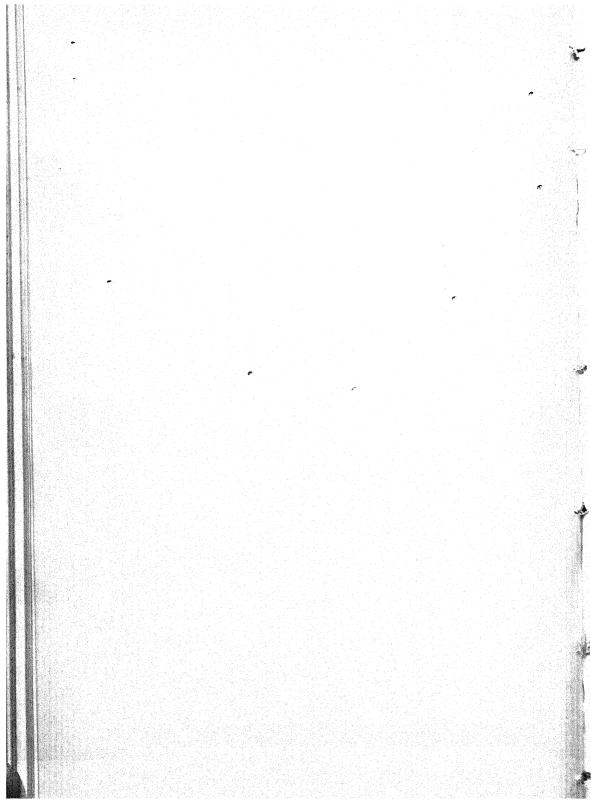
Weller & Graham, La Litho Lor

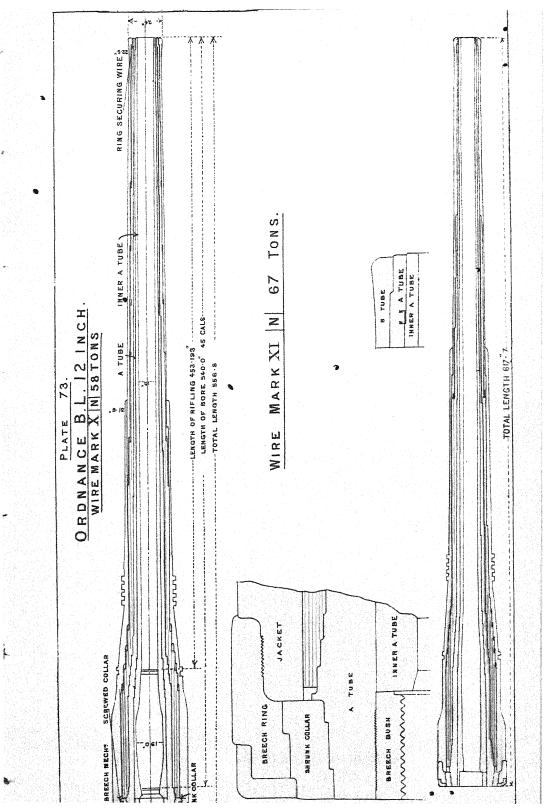


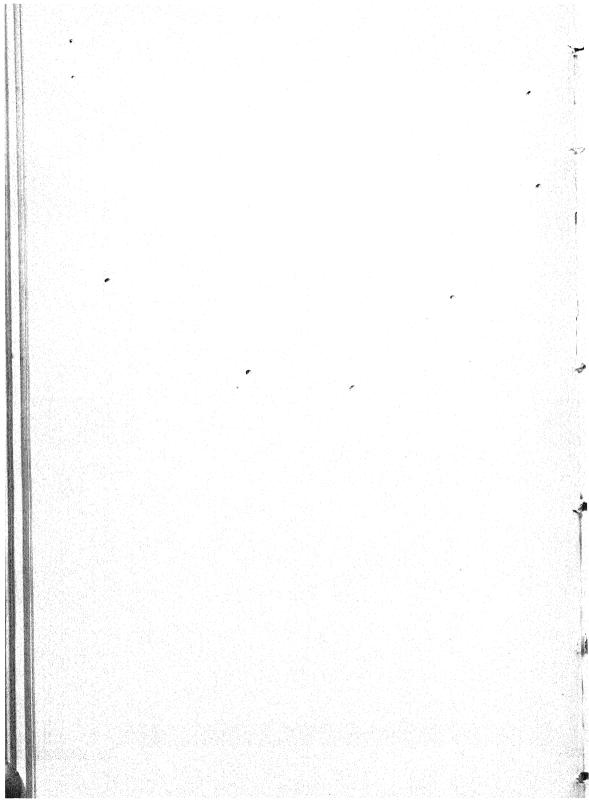


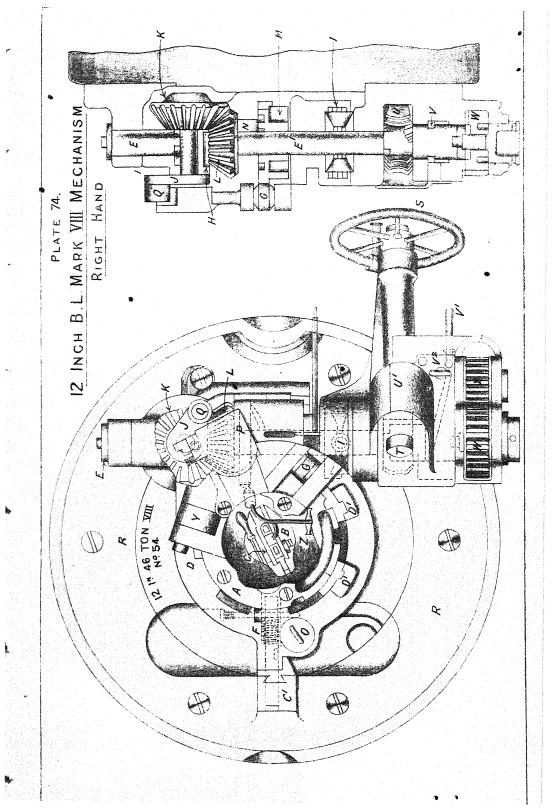












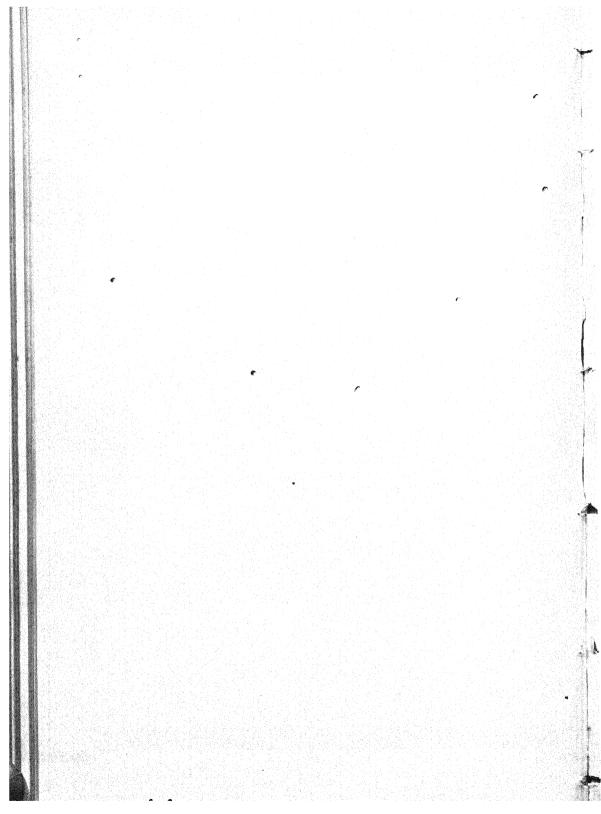
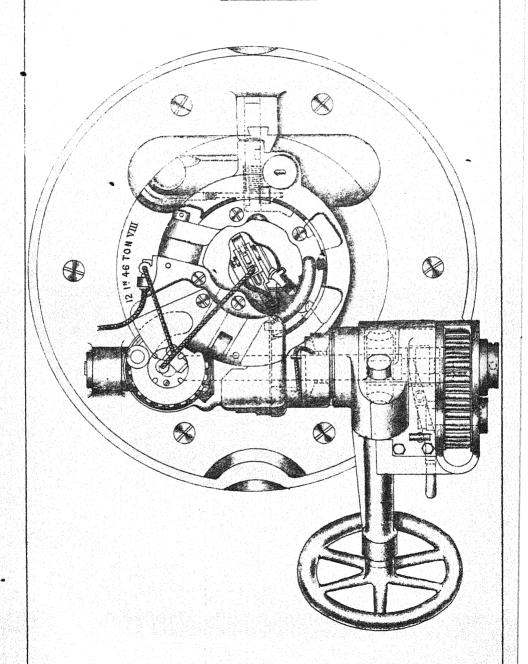
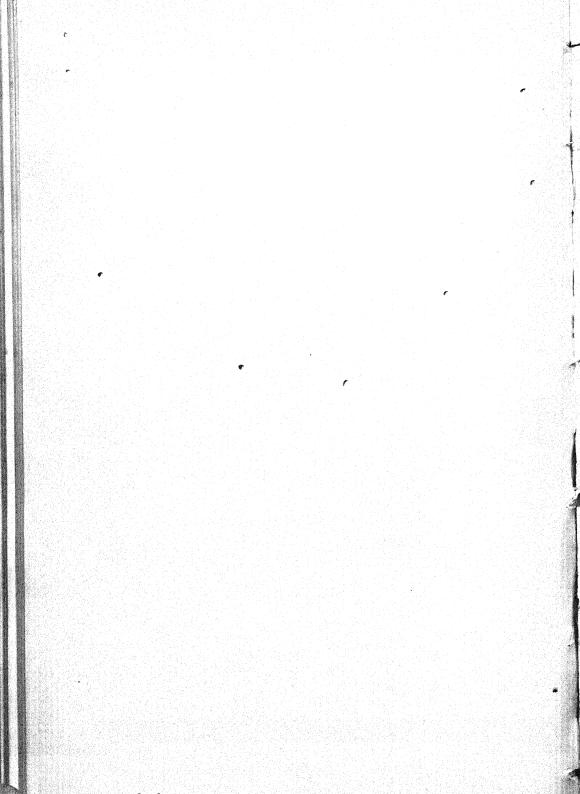


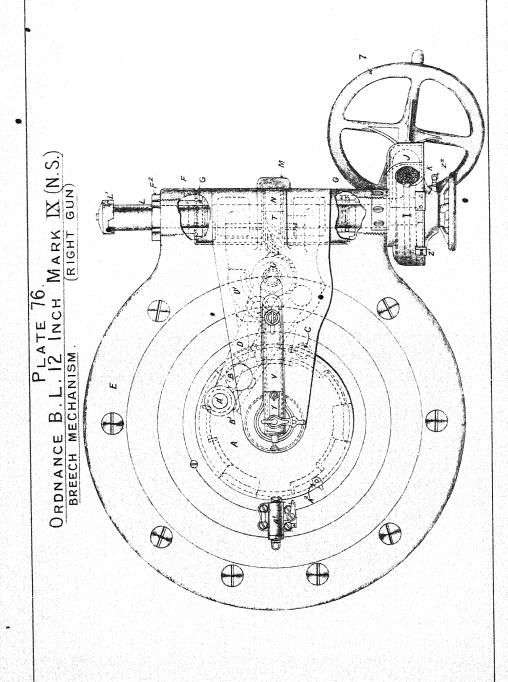
PLATE 75.

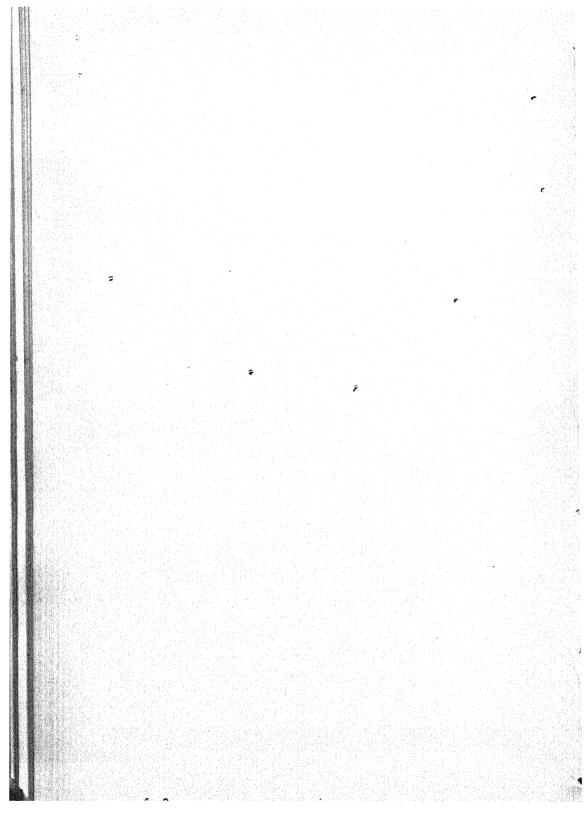
12 INCH B.L. MARK VIII. MECHANISM. (N.S).

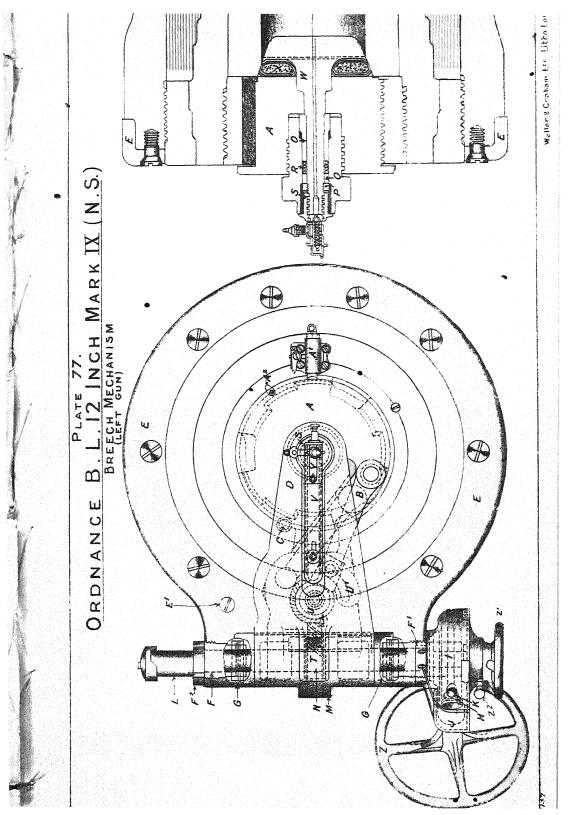
LEFT HAND.

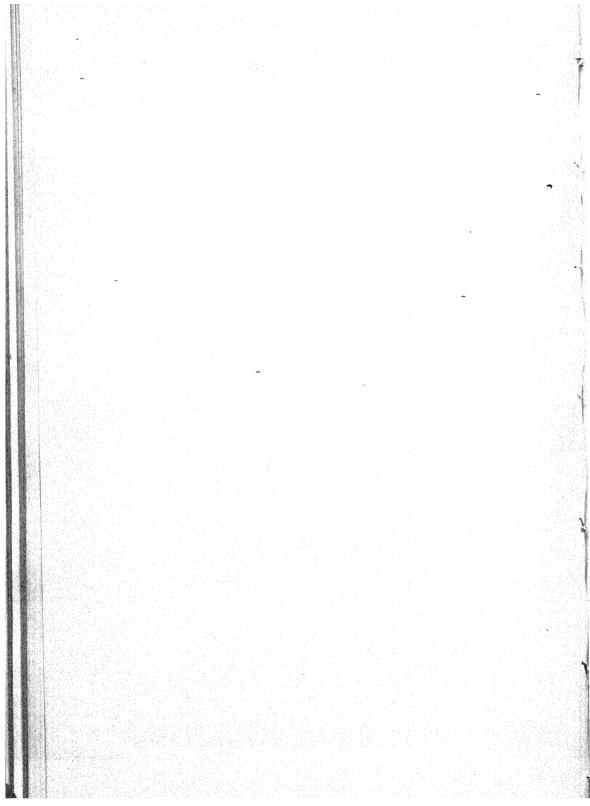


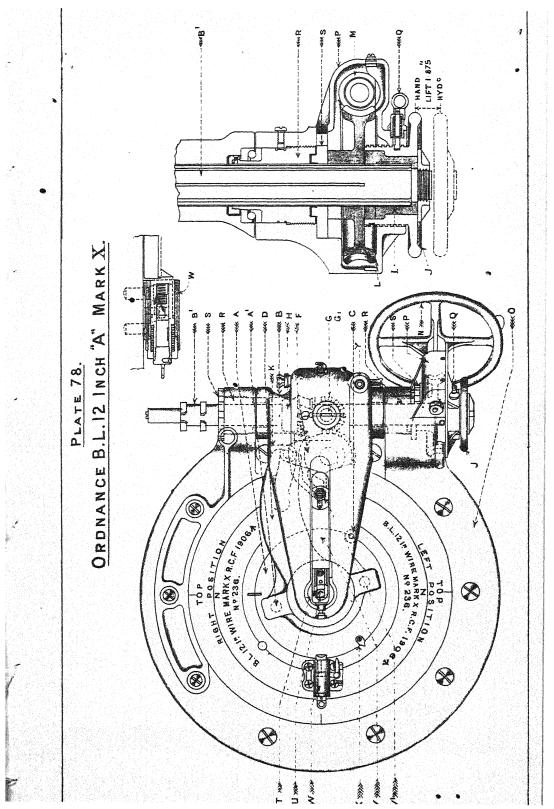


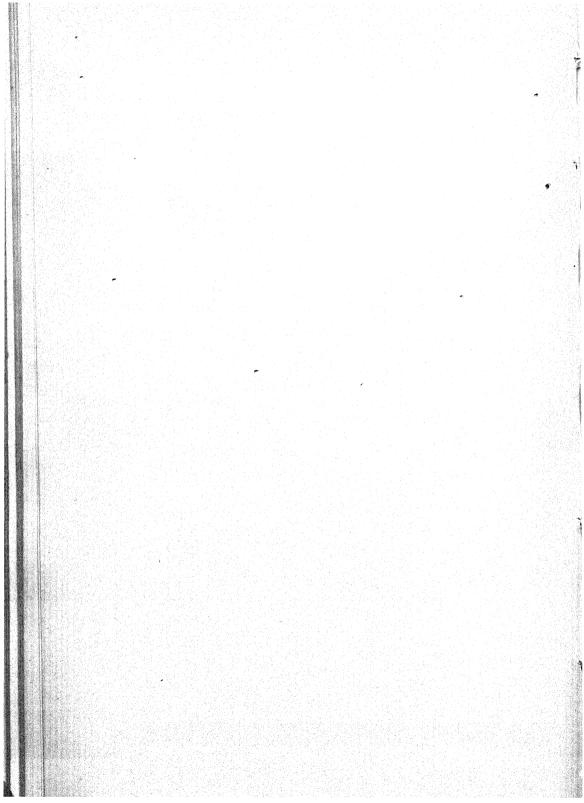


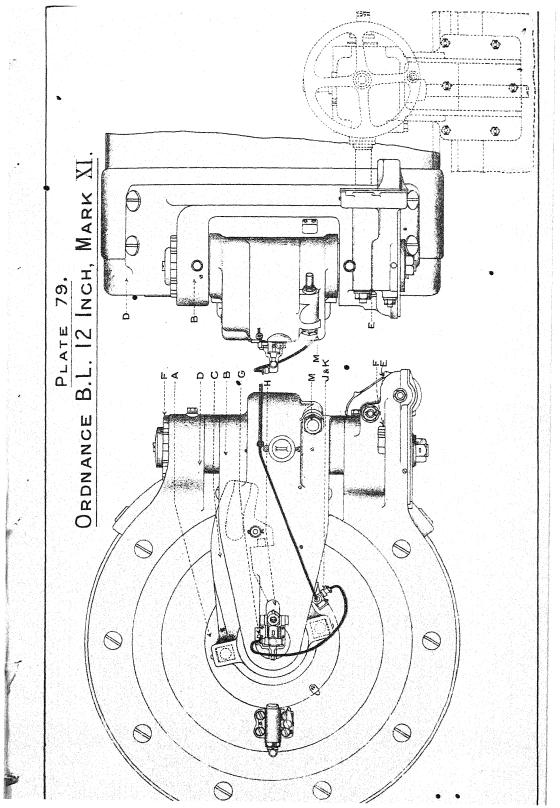


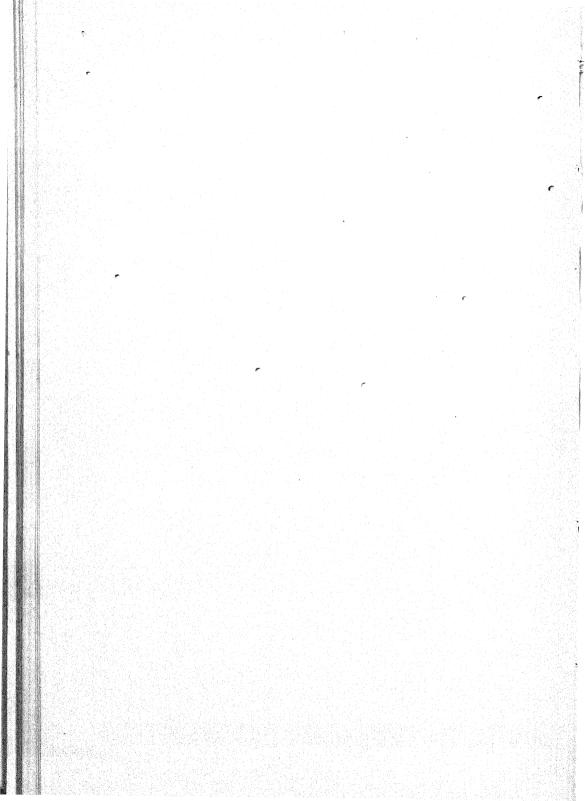




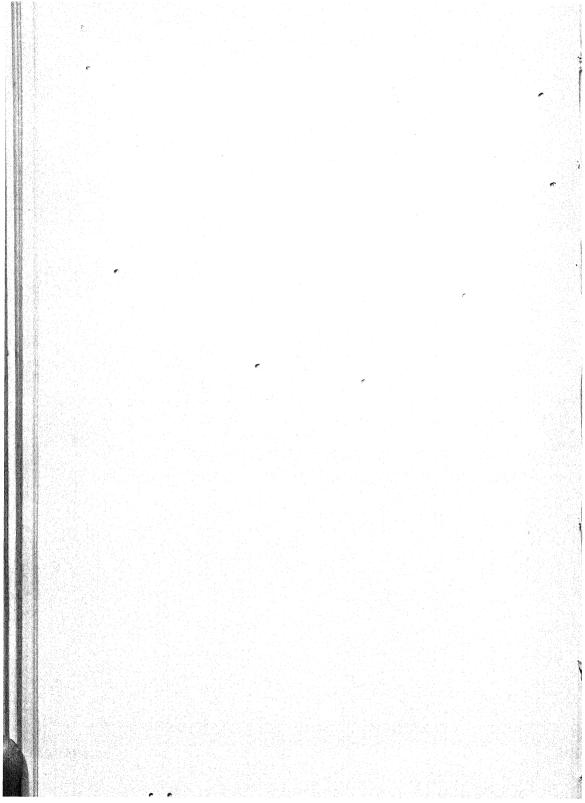


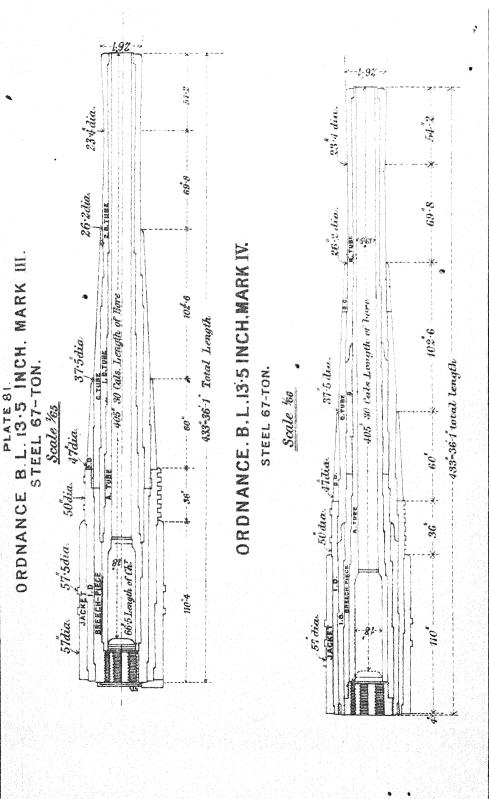






54.2 26 dia. 26" dia ORDNANCE B. L. 13-5 INCH, MARK II. ORDNANCE B. L. 13-5 INCH, MARK I. 405".30. Cals Length of Bare 34.2 dia. 405" 30 Cals Layth of Bore 9.701 ---483-36-1 Total Length STEEL 69-TON 433-86-1 Total Length 67-TON Scale 65 Scale 1/85 STEEL 50dia33".... 57.5dia. ,57°5 dia 1 length of Ch.





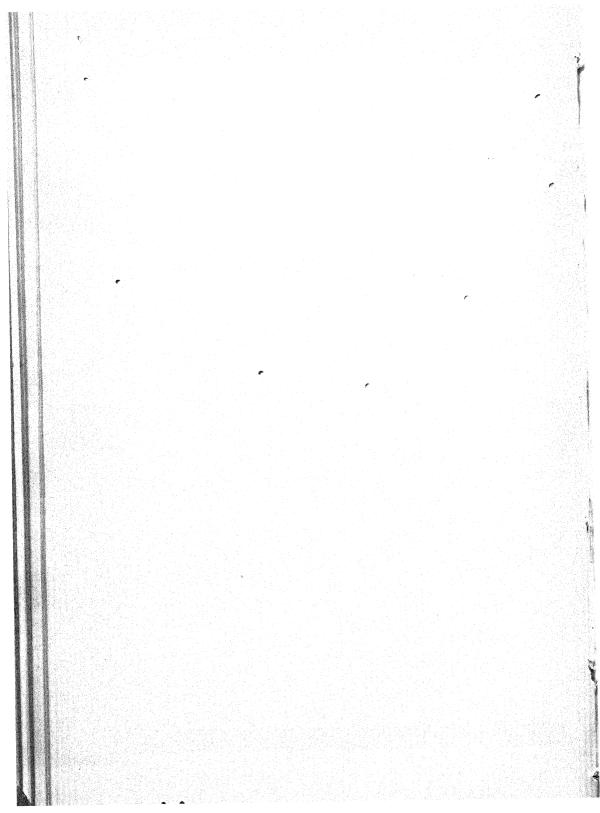


PLATE 82. 0F N. S. 13. 5. INCH B. L. GUNS. Scale 40. BREECH MECHANISM

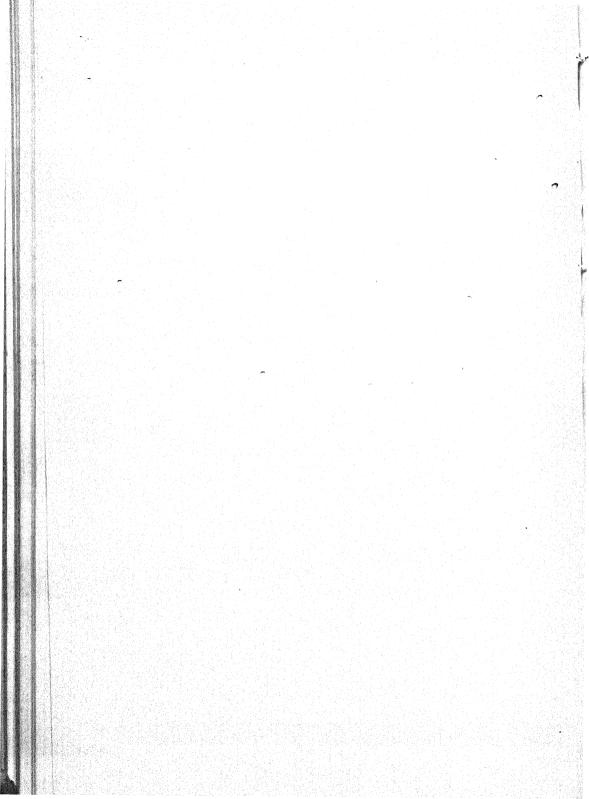
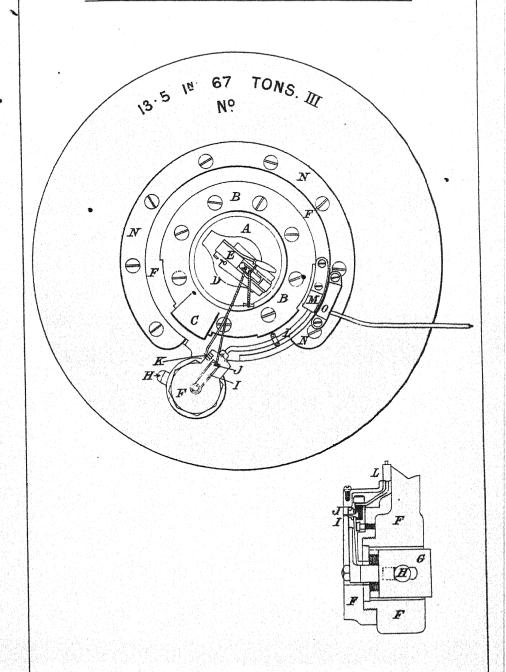
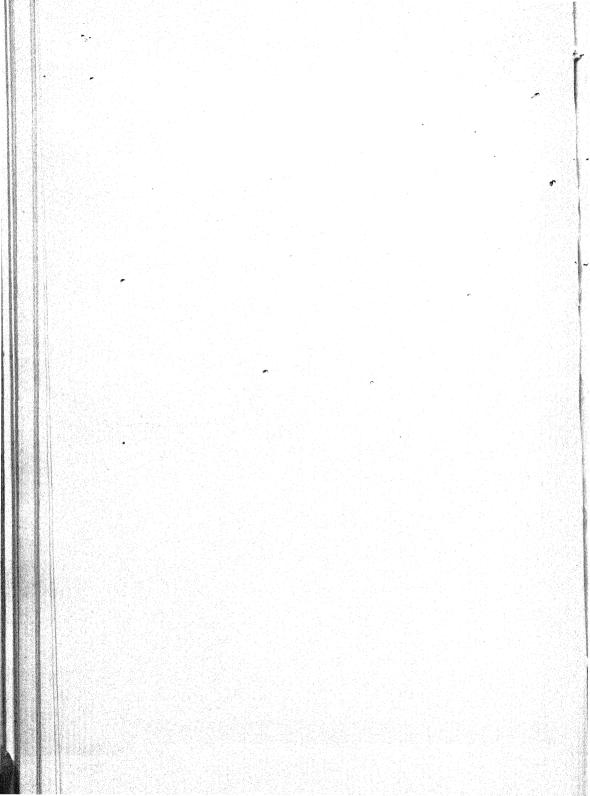
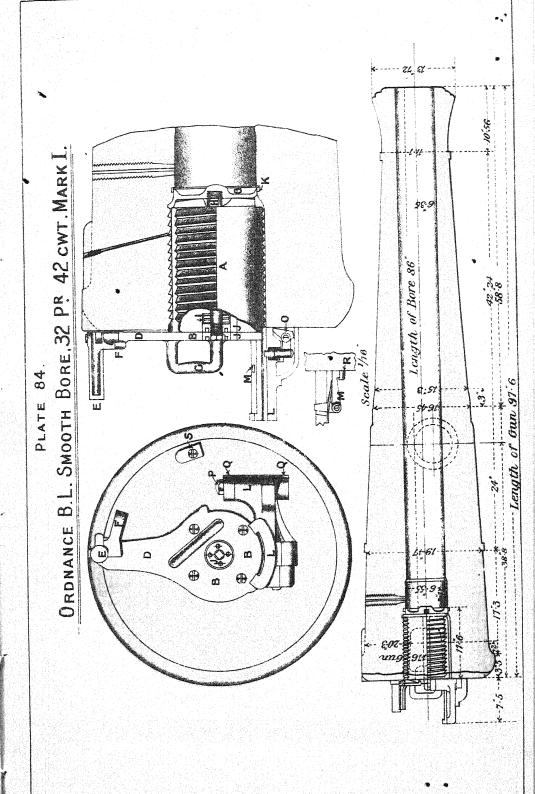


PLATE 83.

ORDNANCE B.L. 13.5-INCH, MARK III. L.S.







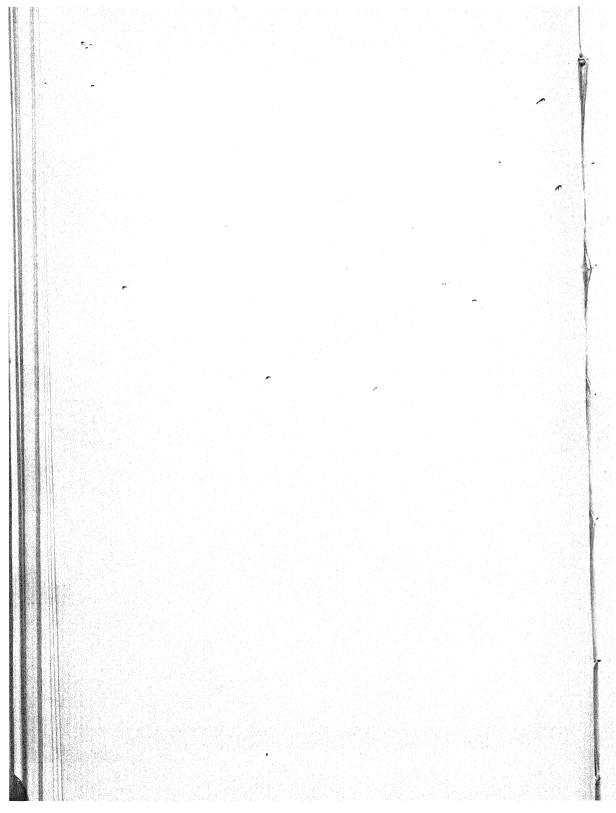
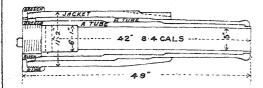
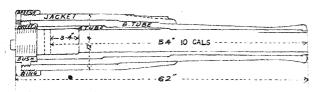


PLATE 85 B.L. HOWITZERS

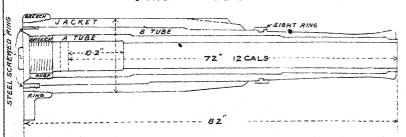
5-INCH OF 9-CWT.



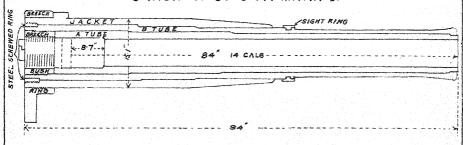
5-4-INCH OF 13-CWT.



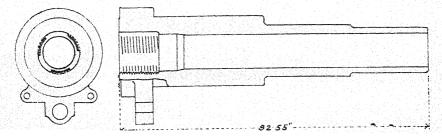
6-INCH OF 25-CWT.



6-INCH OF 30-CWT. MARK I.



9.45-INCH.



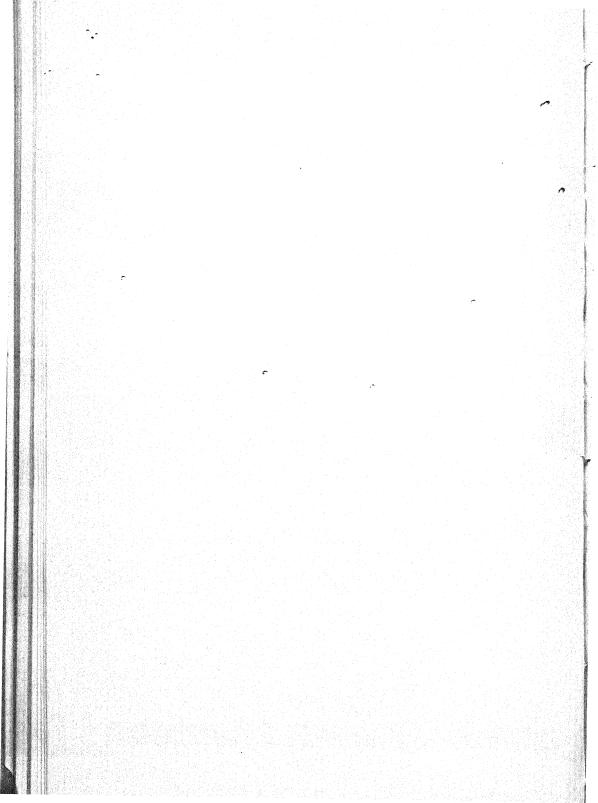
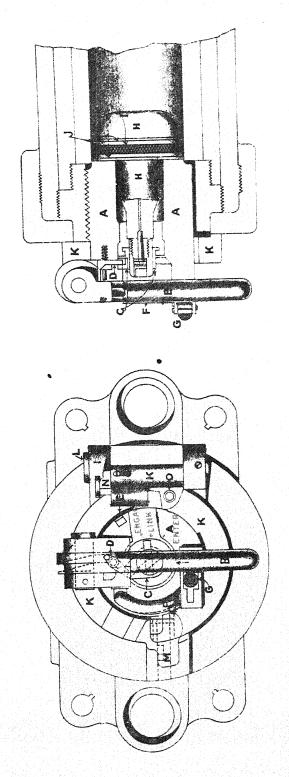


PLATE 86.

5-INCH AND 5.4 INCH. B.L. HOWITZER.





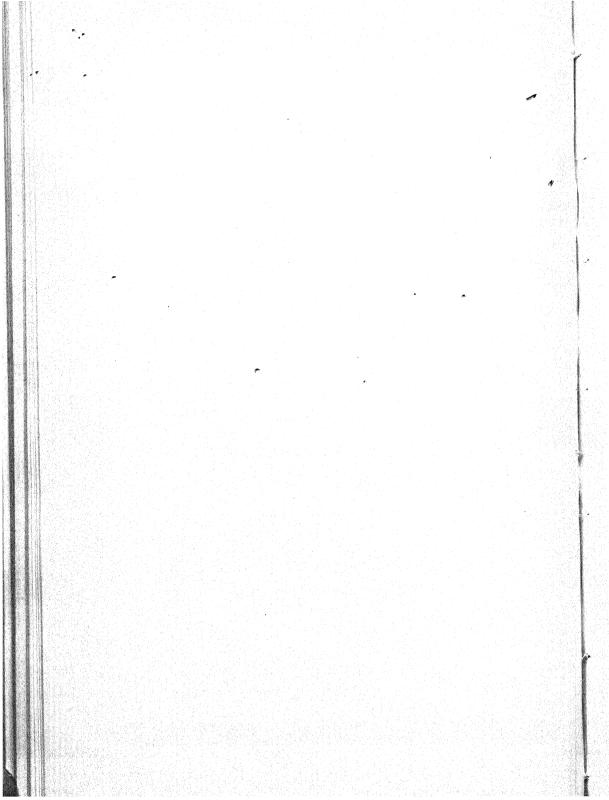
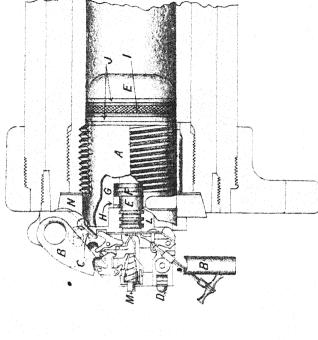
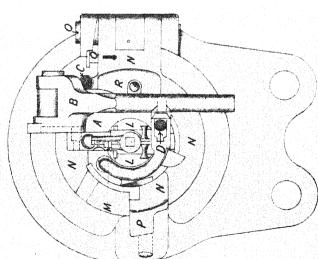


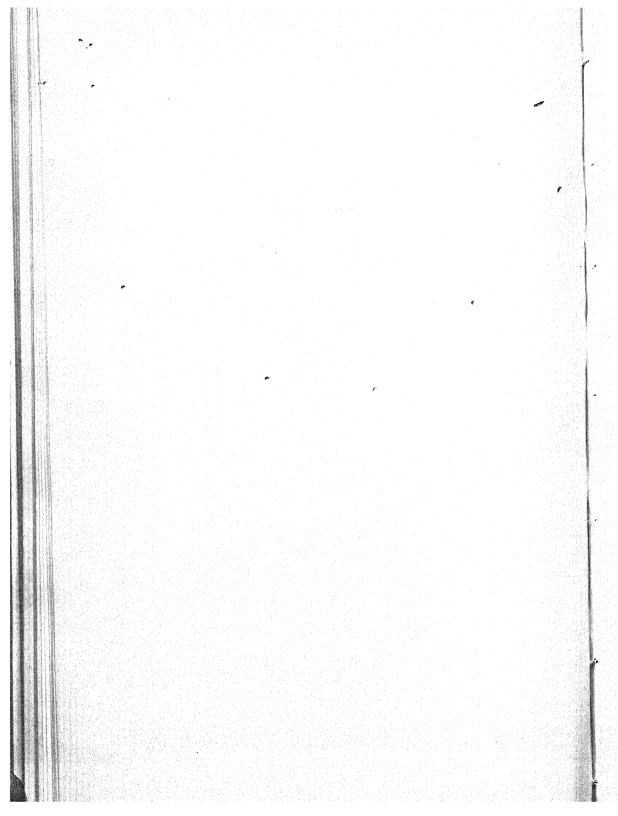
PLATE 87.

6 INCH B. L. HOWITZER, 25 CWT.

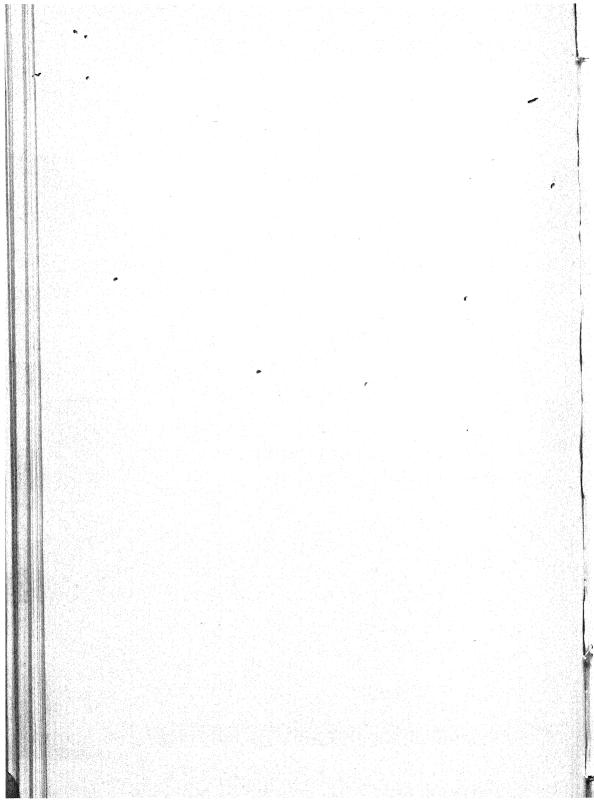
BREECH MECHANISM.







ORDNANCE B. L. 6 INCH 30 CWT. HOWITZER MARK I AND I* BREECH MECHANISM PLATE 88. SCALE 1/6



Q** See ORDNANCE B.L. 9.45 INCH. HOWITZER MARKIIL GENERAL ARRANGEMENT OF BREECH MECHANISM. PLATE 89. 北京つ A W K WA 余知 **

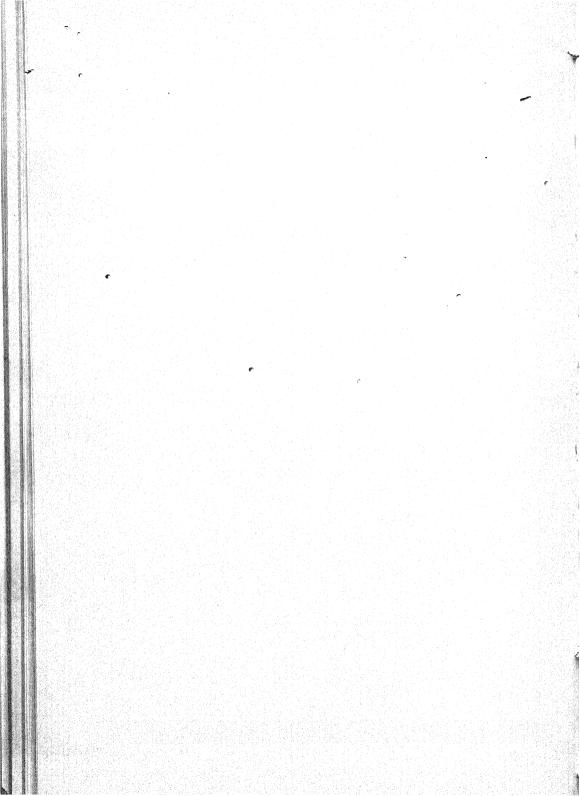
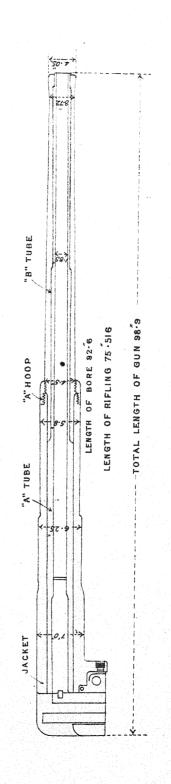


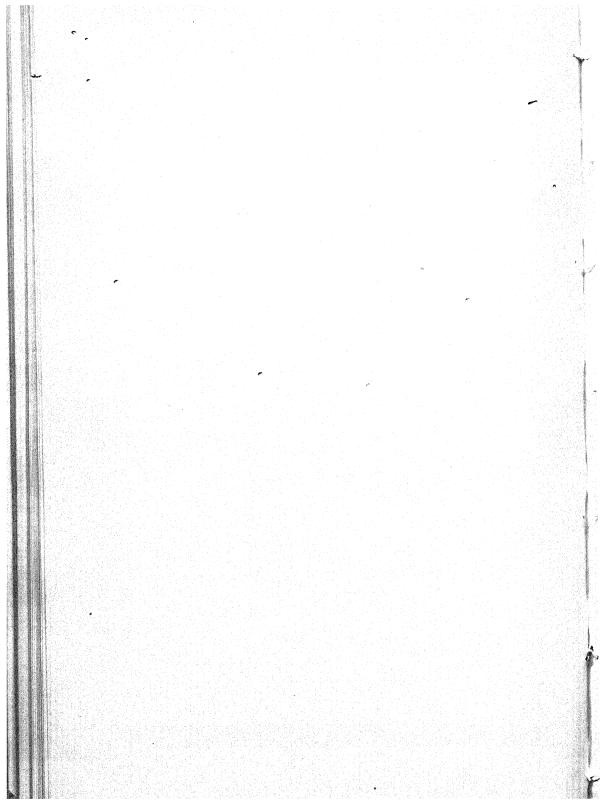
PLATE 90.

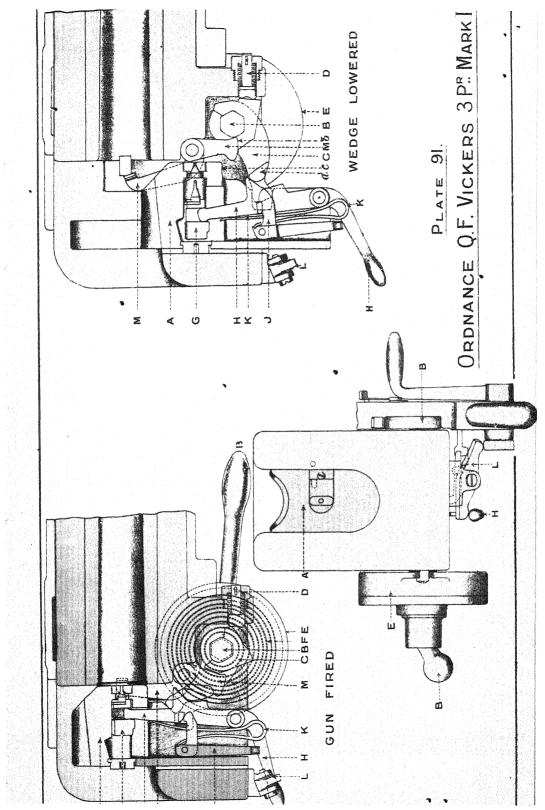
ORDNANCE, QUICK-FIRING, VICKERS, 3 P., MARKI.

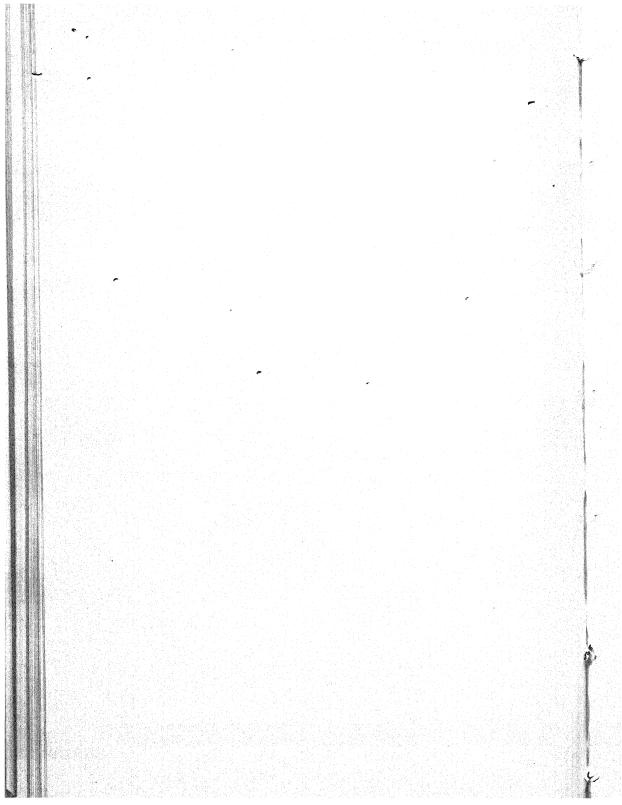
SCALE VITE



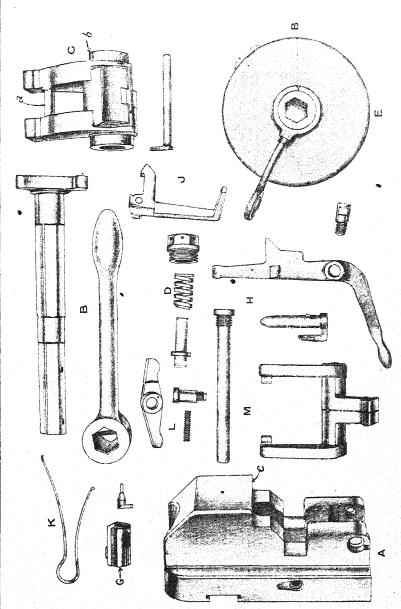
90

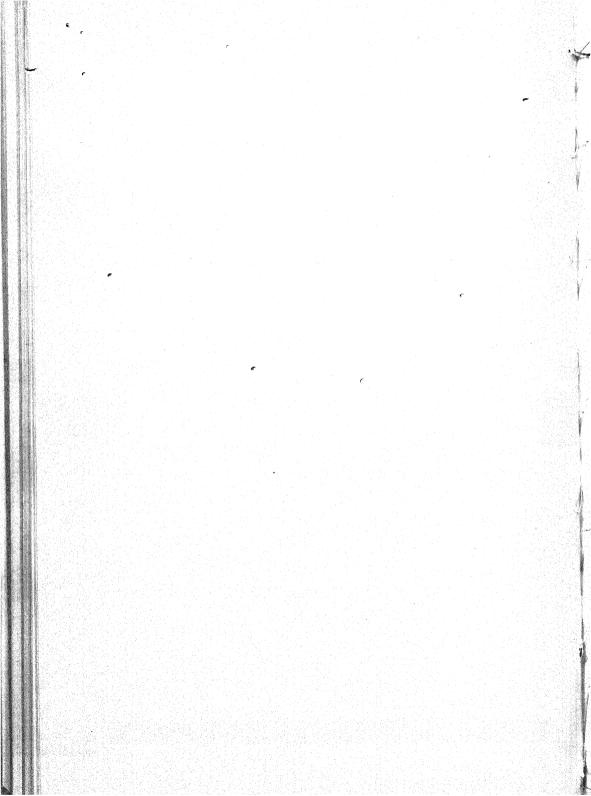


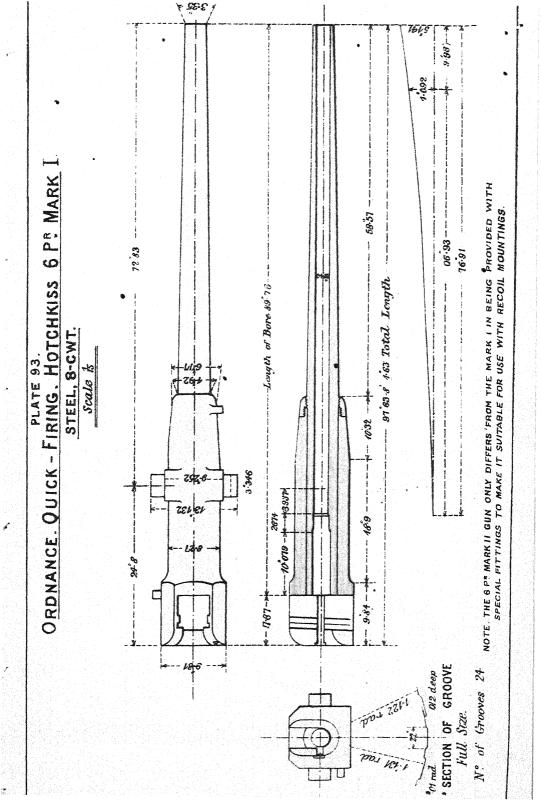


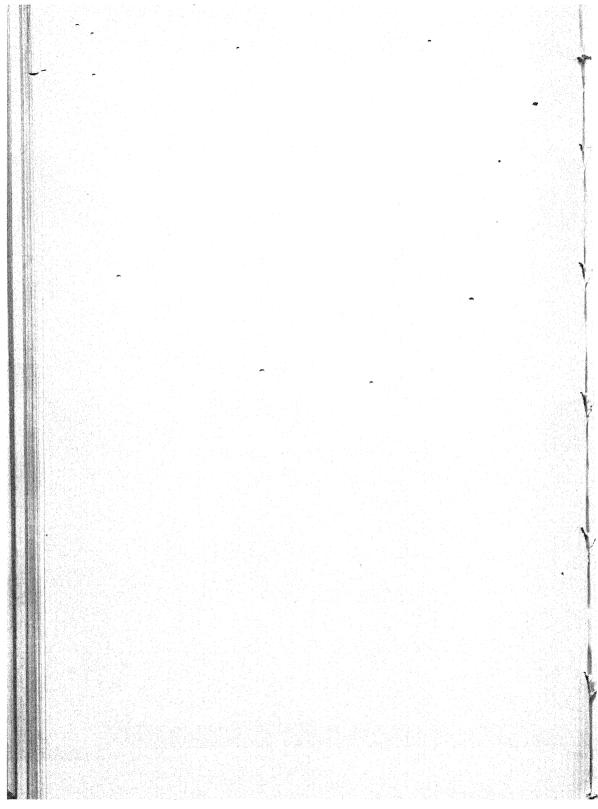


BREECH MECHANISM. ORDNANCE Q.F. VICKERS 3 PR PARTS OF PLATE 92.





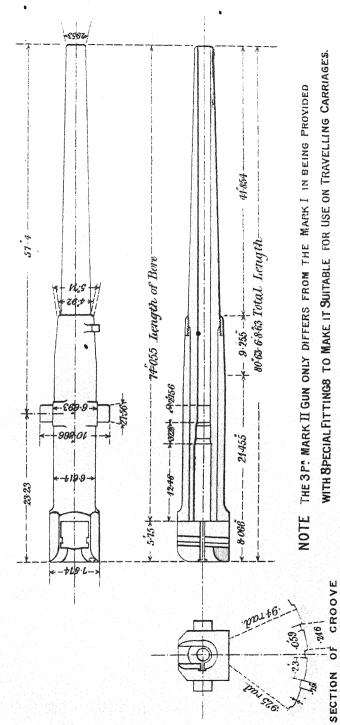




FIRING HOTCHKISS, 3 PR. MARK PLATE 94. ORDNANCE, QUICK

STEEL, 5 CWT.

Scale 1/15



Full Stile

Nº of Graves 20.

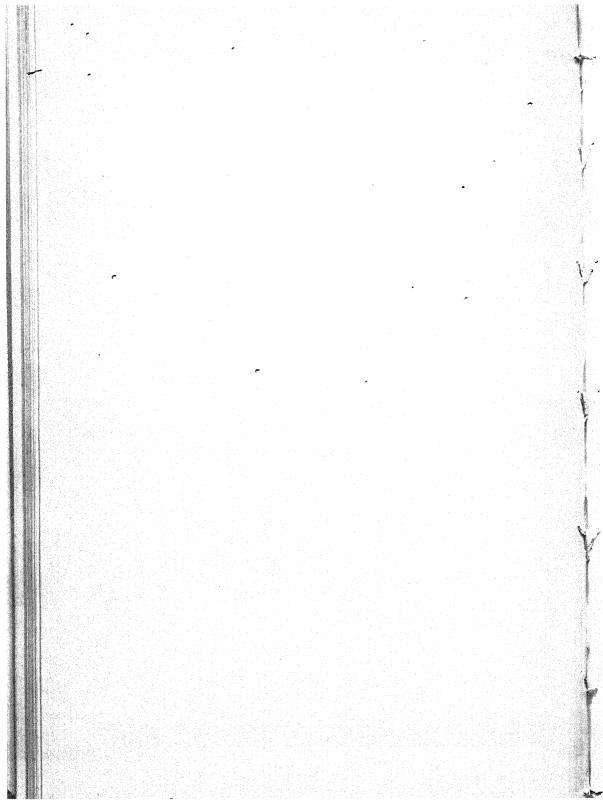
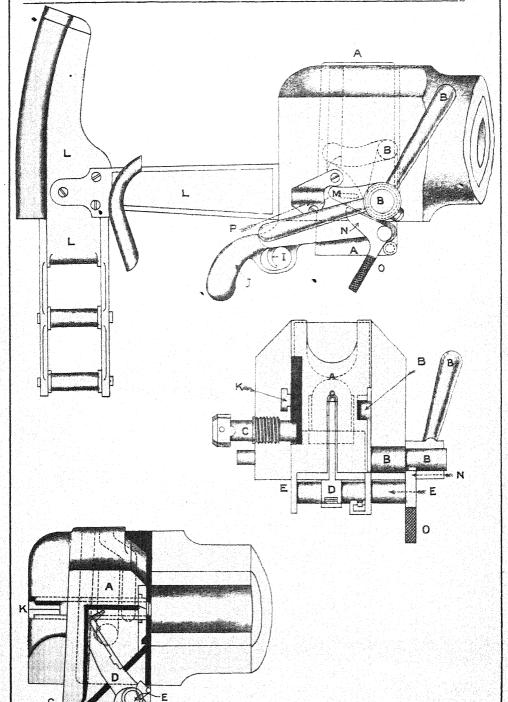


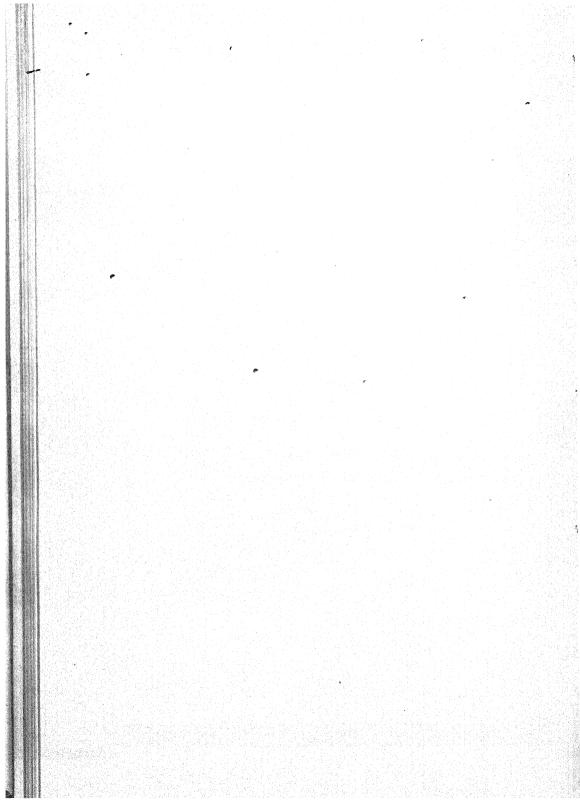
PLATE 35.

HOTCHKISS 6 P. QUICK FIRING GUN MARK I:

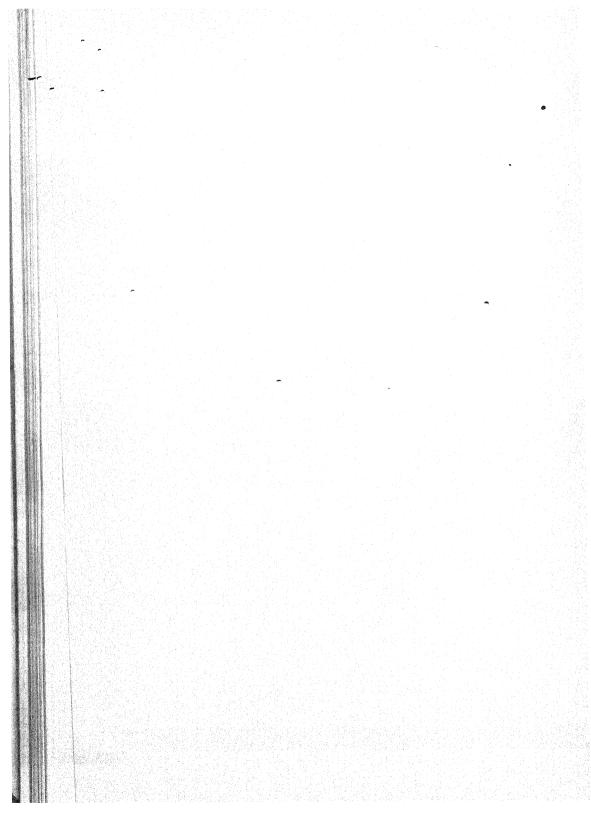
BREECH MECHANISM

ALSO GUN SUB-CALIBRE Q.F.6PR AND 3PRMARK I (EXCEPT SHOULDER PIECE L.)



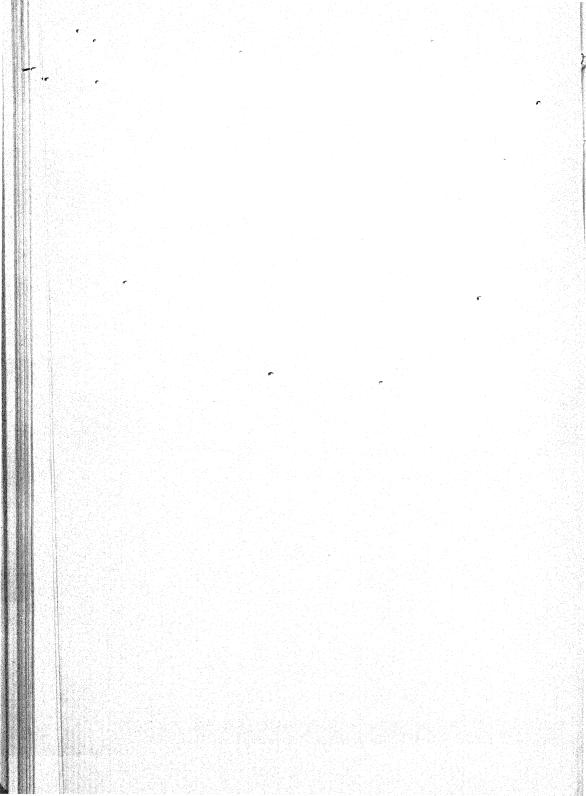


·4.8. ORDNANCE, QUICK-FIRING, NORDENFELT, 6-PF, MARK I ne: 98.32 -95 Length of Bore-STEEL: 6-CWT PLATE 96 -- 104: 4-8-8:4 Total Length Scale 1/15 SIGHT RING .. 10°35 --- 22°37439374 -36.55-13.1 ·- 8.4 --ر- و <u>.</u>

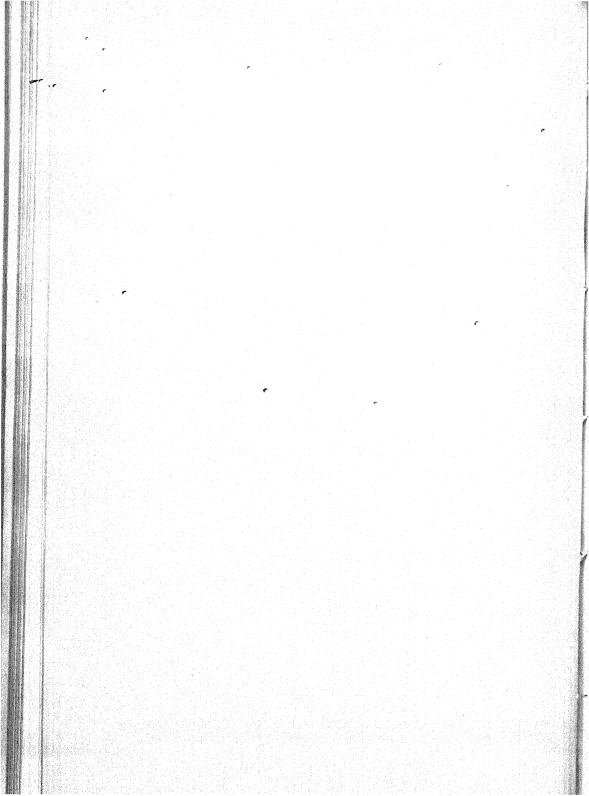


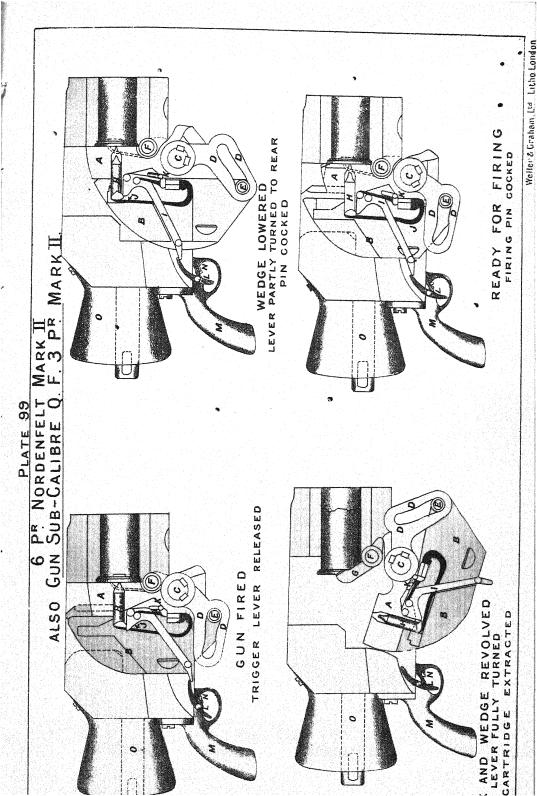
ORDNANCE, QUICK-FIRING, NORDENFELT, 6 PB, MARK II. ---58.9 STEEL: 6 CWT PLATE 97. - 104:4-8-8 4 Total Length --Scale 1/15 -95" Length of Bore. ATURE -10.35 ×2.87×3.8374

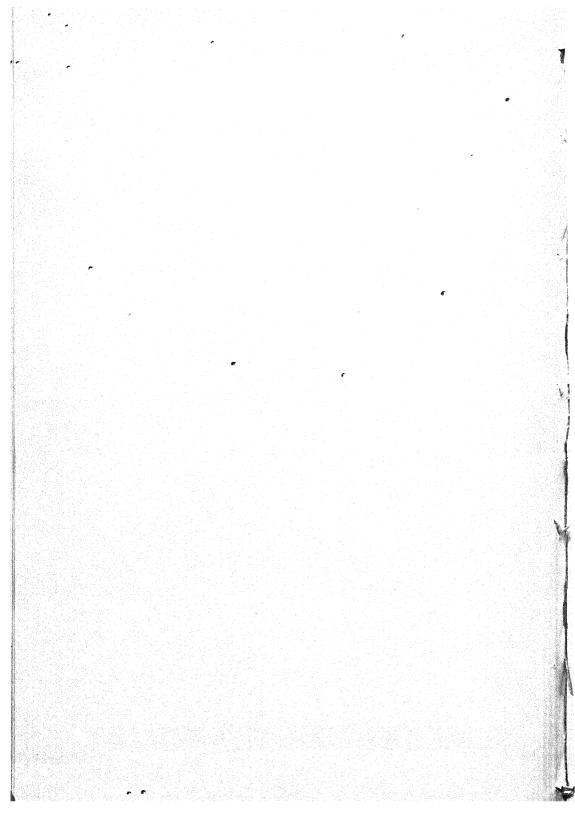
NOTE: The 6 P. Mark III Gun only differs from the Mark II. in being provided with special fittings to make it suitable for use with recoil mountings.

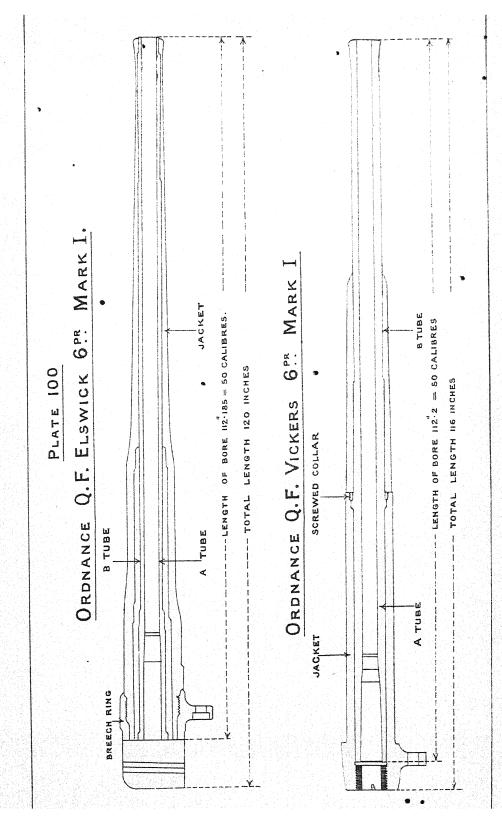


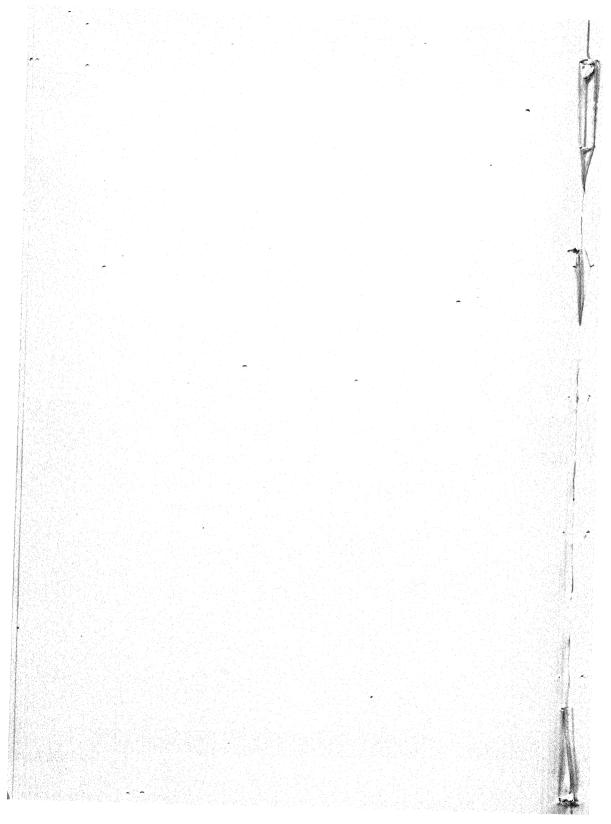
ORDNANCE, QUICK-FIRING, NORDENFELT, 3-PR, MARK I. 994 - W.W. 58 472 -9.3-7-7 -TOTAL LENGTH-6.2 dia, 4.7 dia. SIGHT RING PLATE 98. STEEL, 4 CWT. Scale # 6.5 dia. K- 7.5-* 4-2.4-4



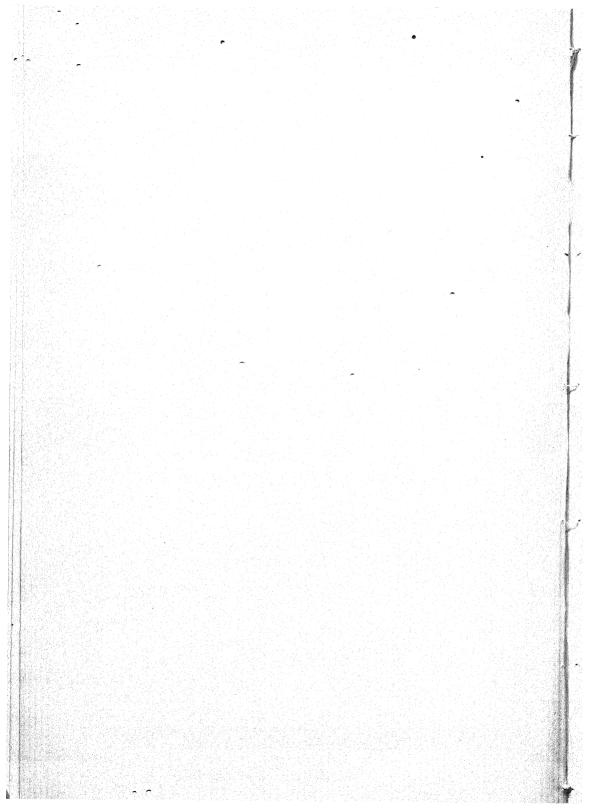


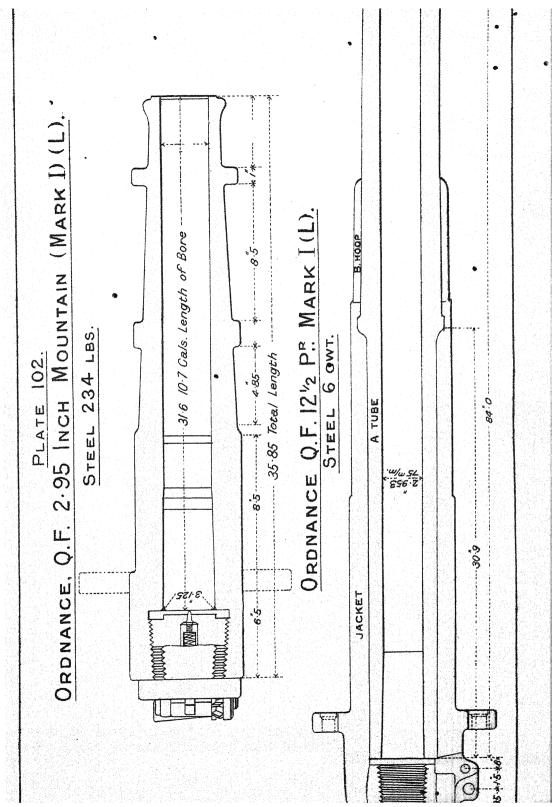


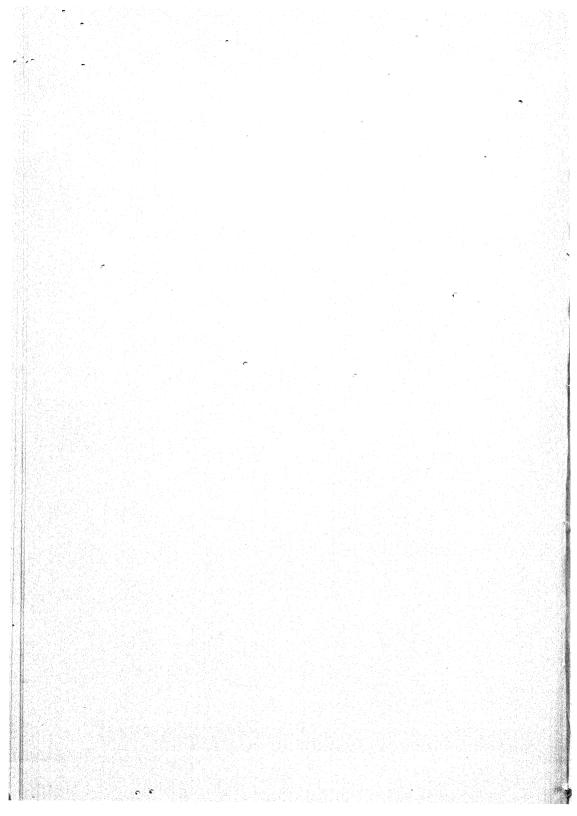


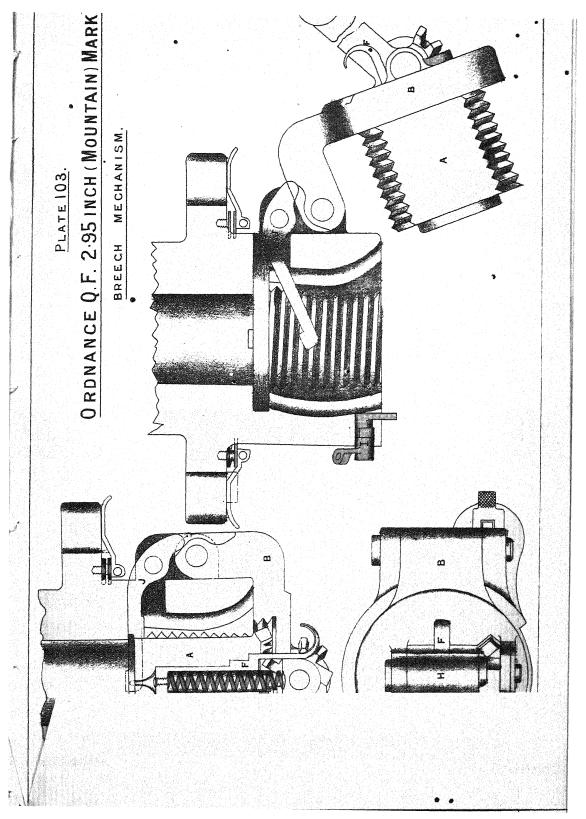


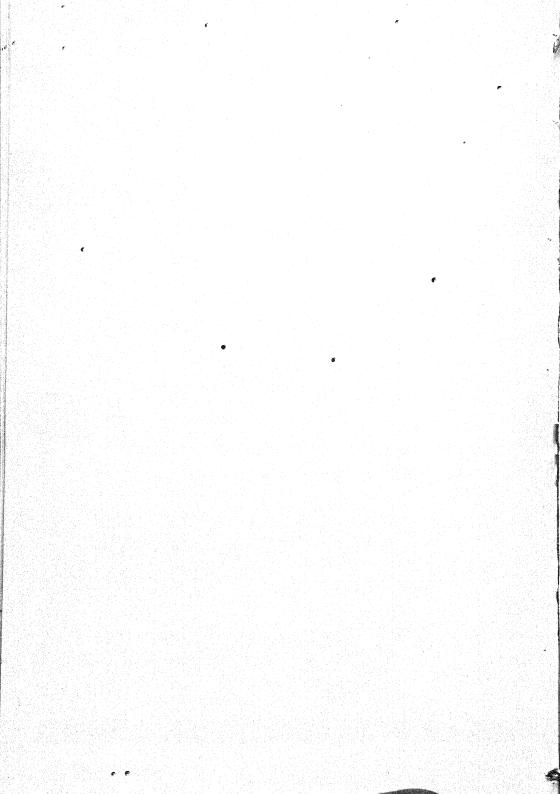
ORDNANCE, Q.F. ELSWICK, 6 P. MARK I. (N). PLATE 101.

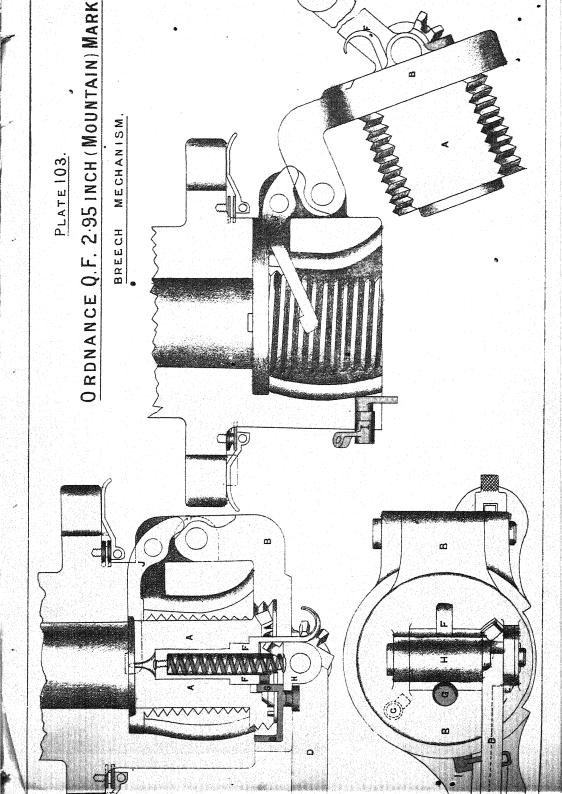




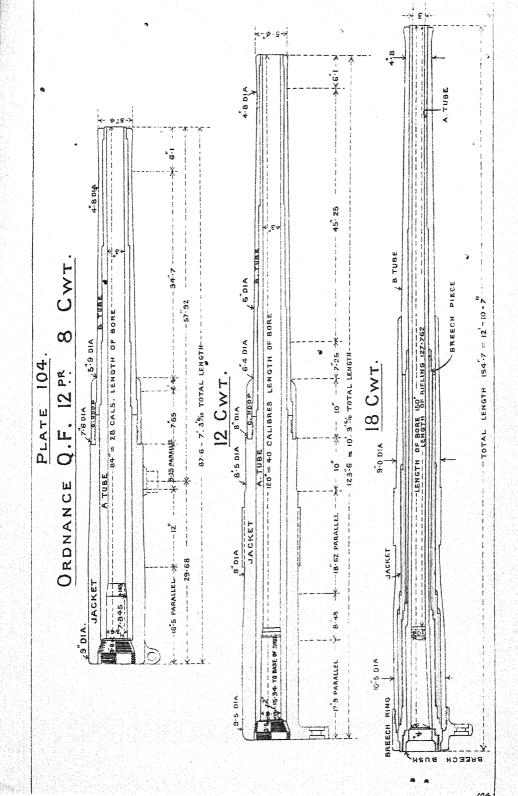


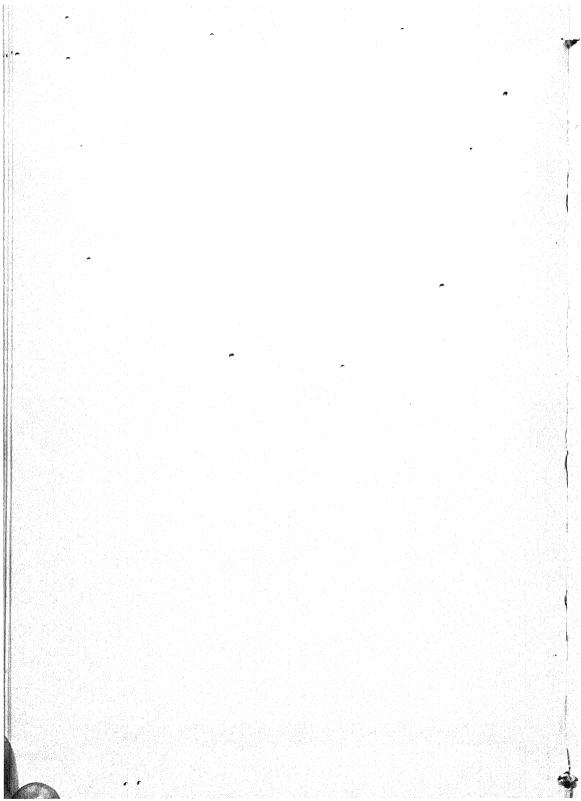


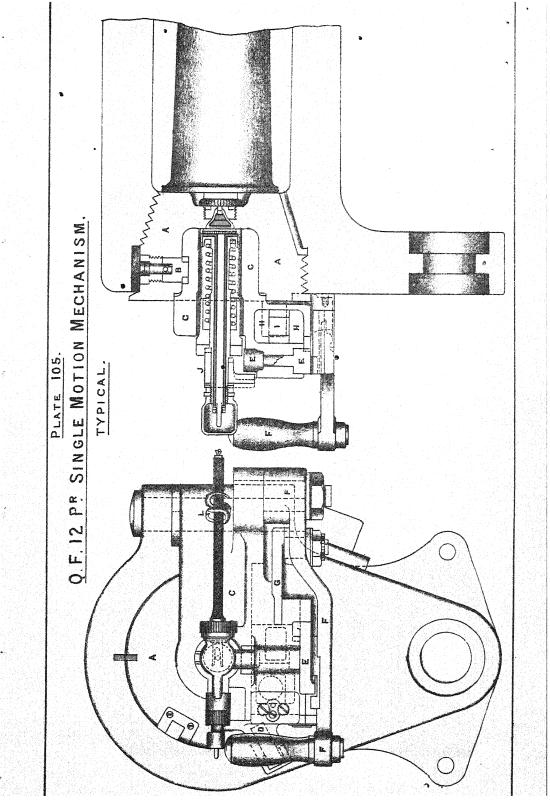


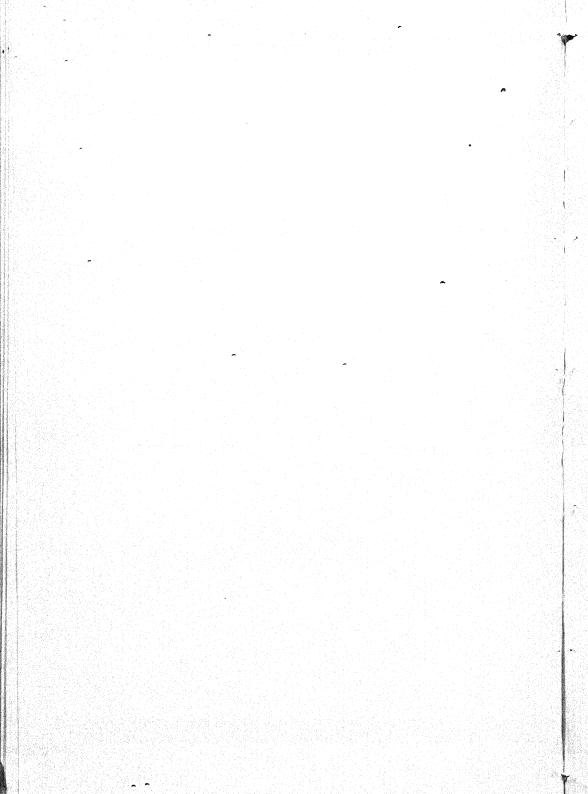




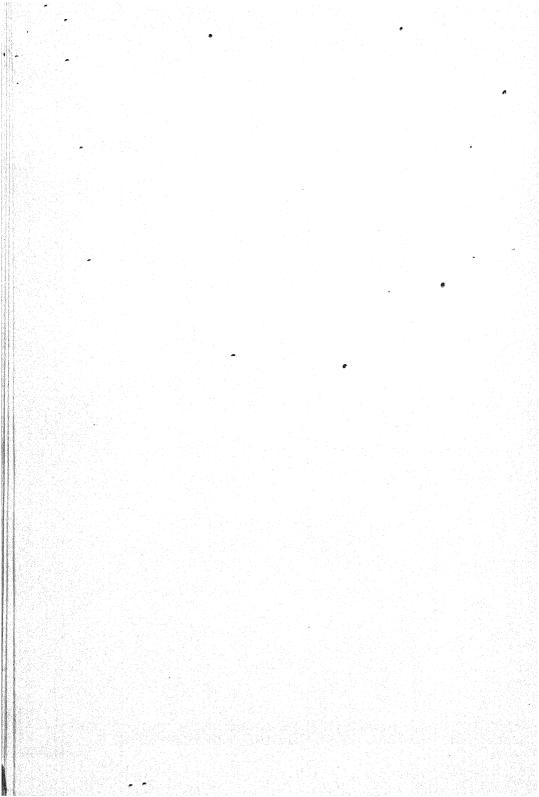


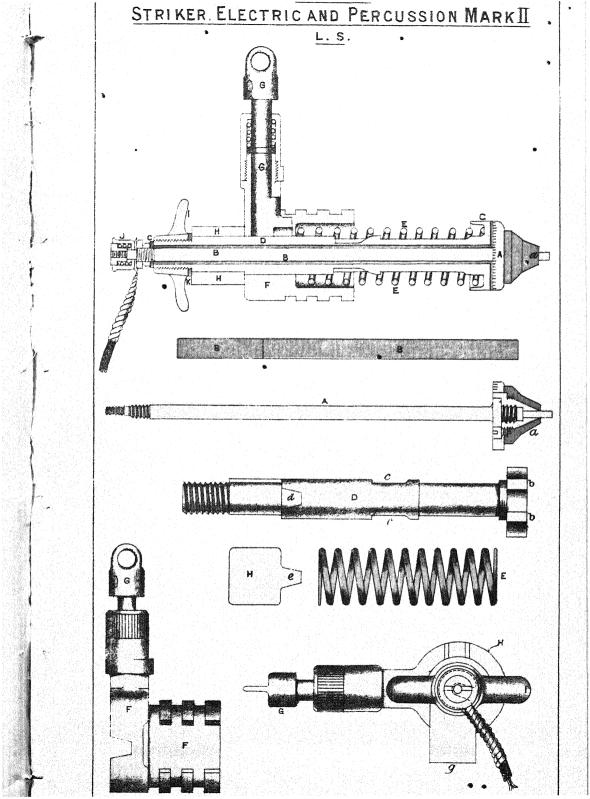


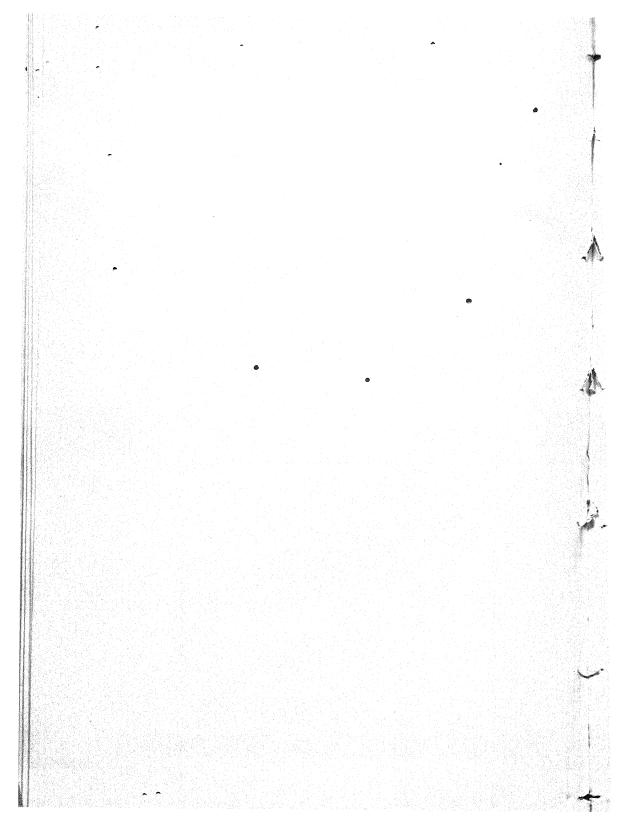


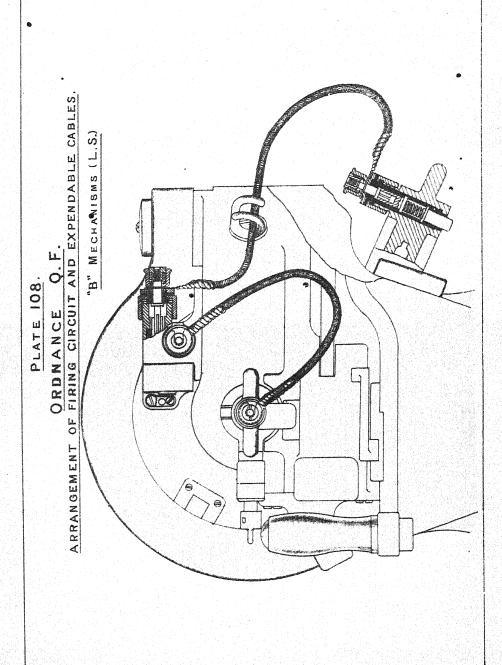


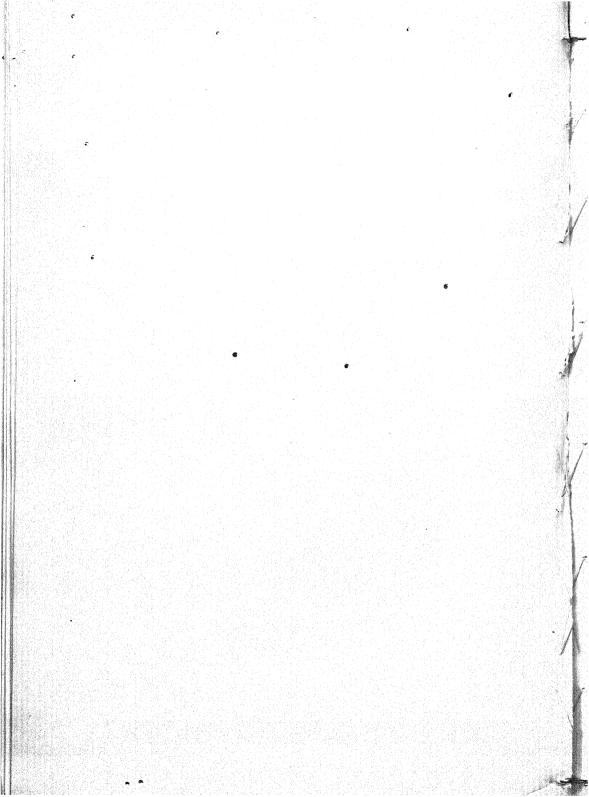
ORDNANCE Q.F. 12 PP 18 CWT AND 14 PP MARK I. MECHANISM. PLATE 106 BREECH



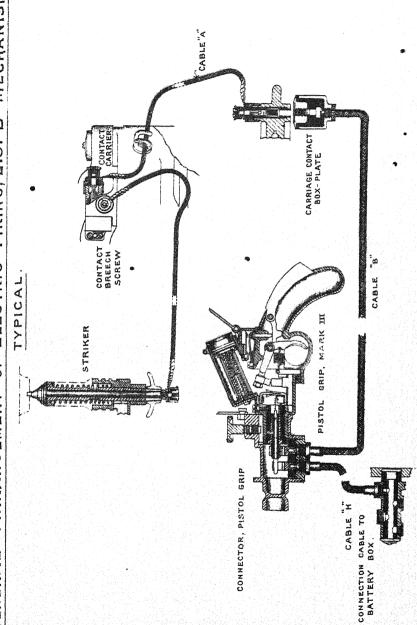


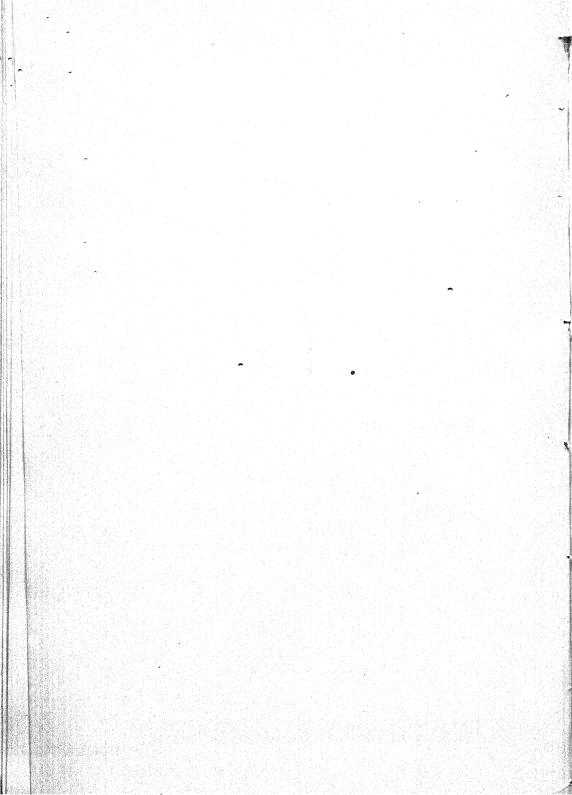




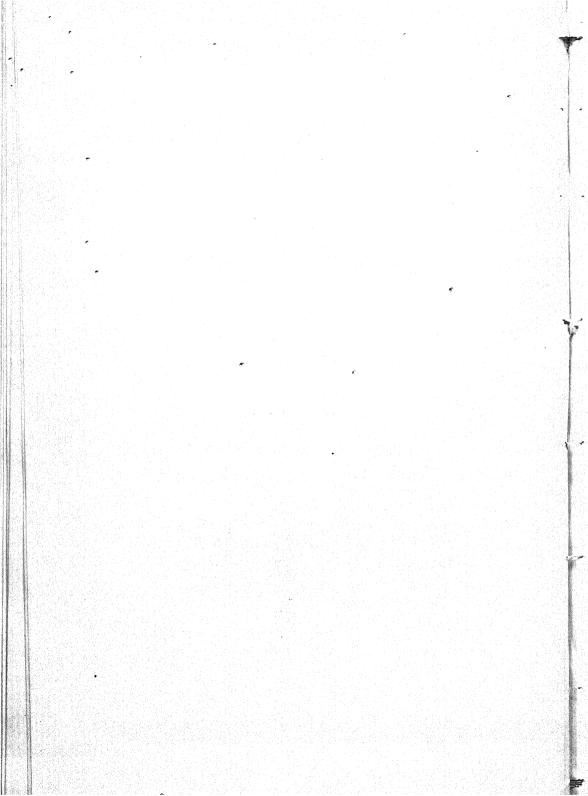


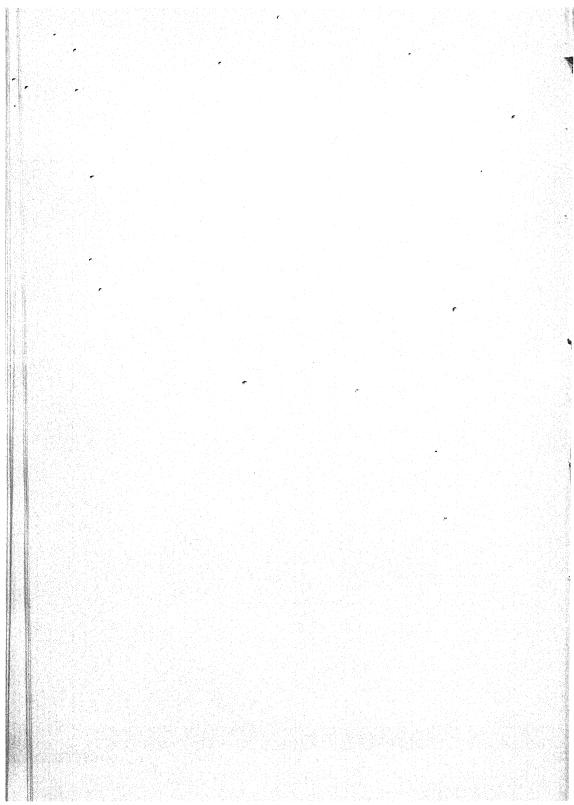
FIRING, L.S. "B" MECHANISM. 000 ELECTRIC PLATE E O ARRANGEMENT GENERAL

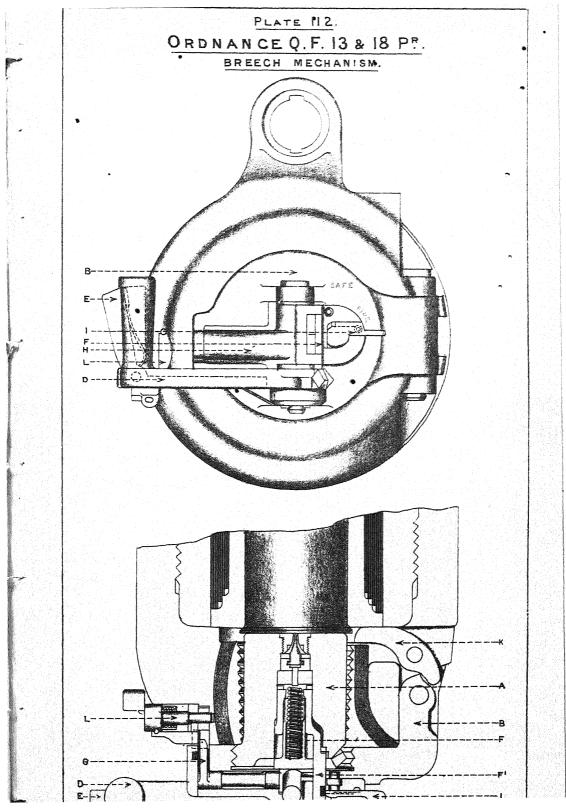


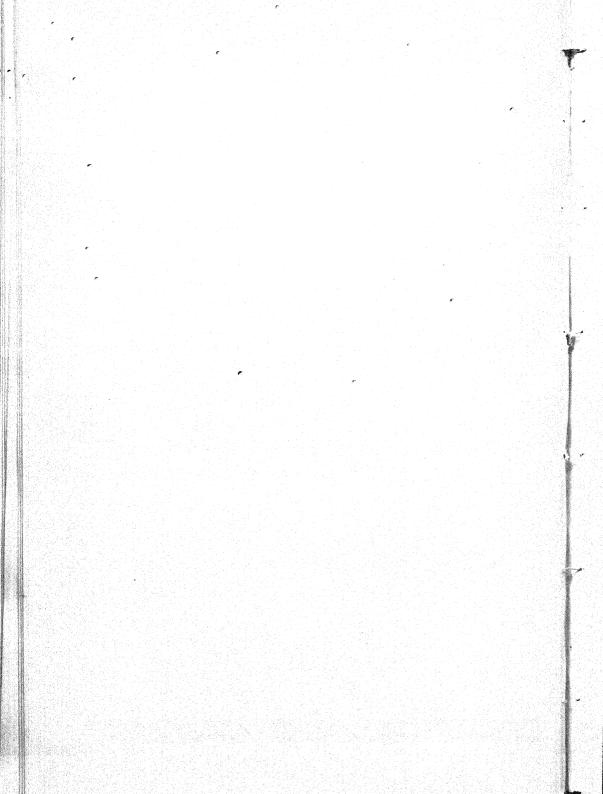


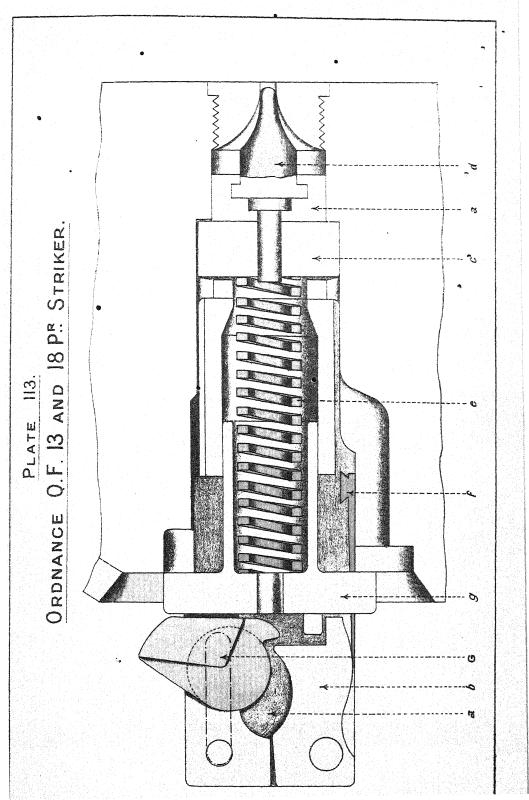
GENERAL ARRANGEMENT OF ELECTRIC FIRING GEAR OF THE SINGLE MOTION MECHANISM. (N.S.) WWW GUN CONTACT PISTOL STRIKER 999999999 ELECTRIC BATTERY

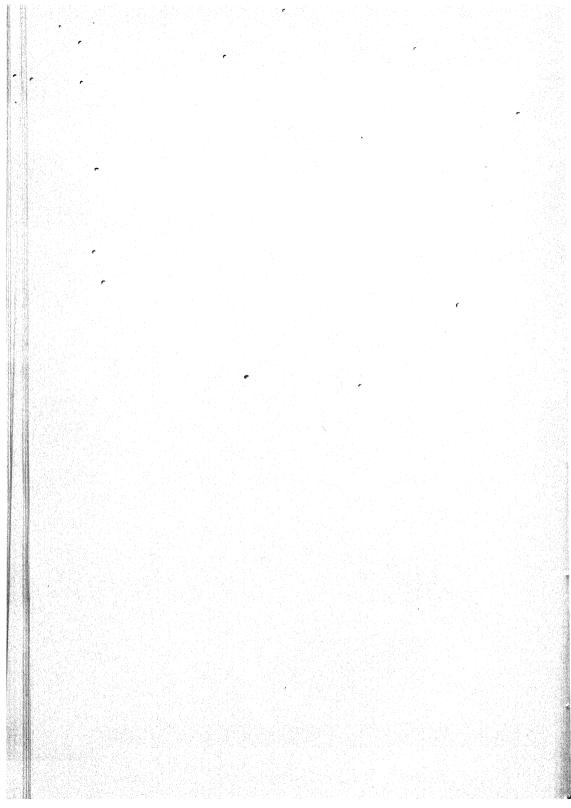




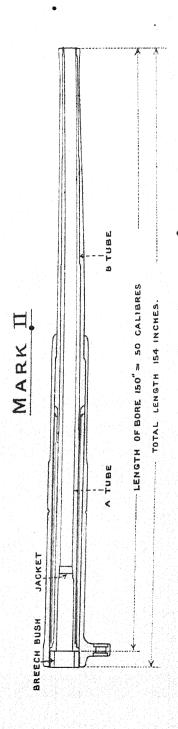


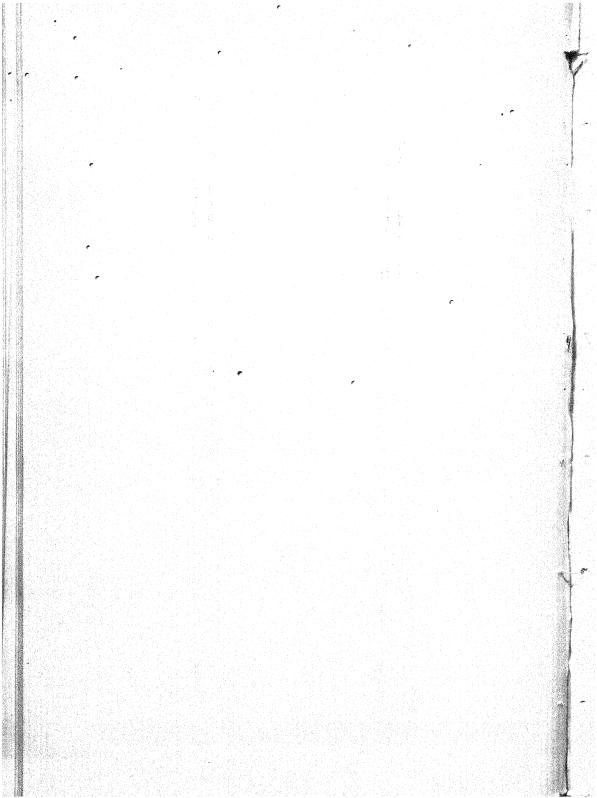


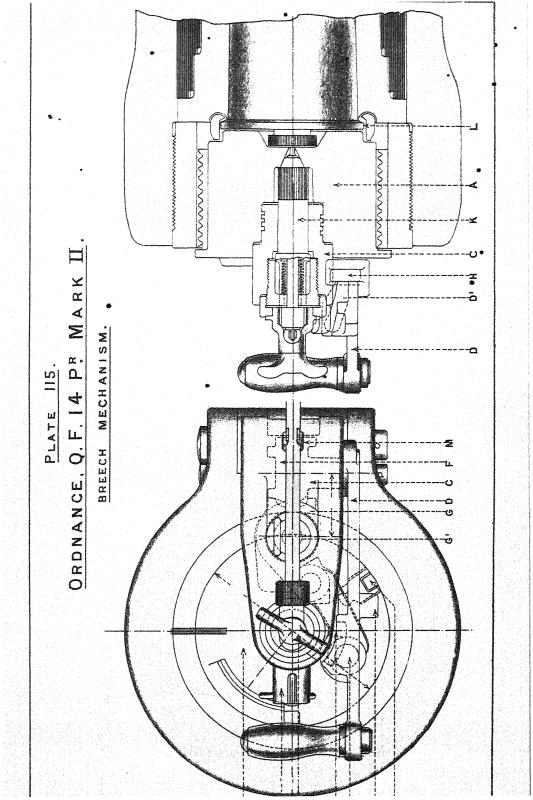


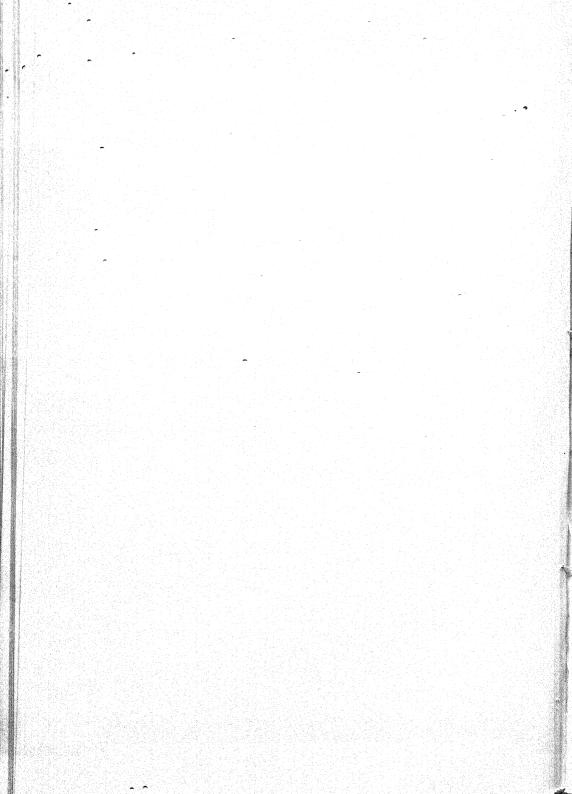


ATUBE ORDNANCE Q.F. 14 PR MARK I. B TUBE LENGTH OF RIFLING 127.782 TOTAL LENGTH 155.35... BREECH PIECE 14. PLATE LENGTH OF BORE 150" JACKET BREECH RING HEUB BEEECH

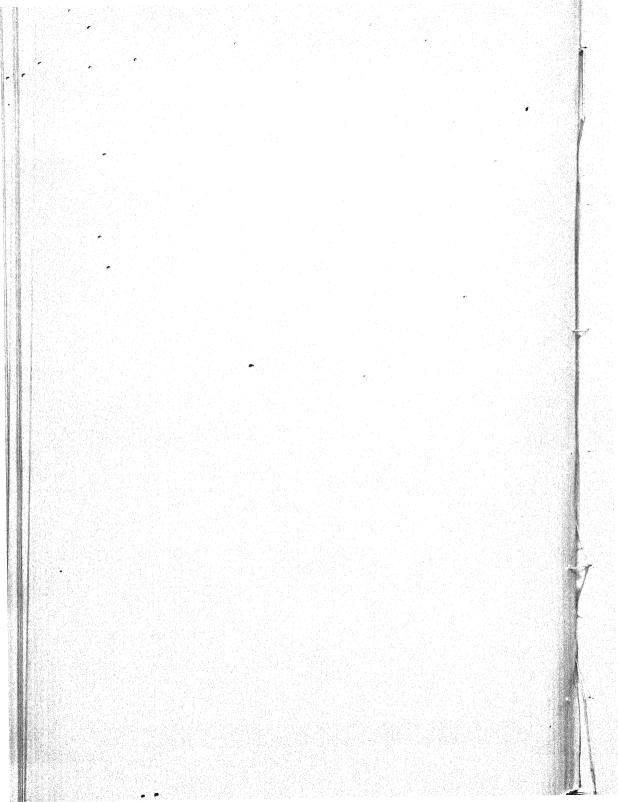


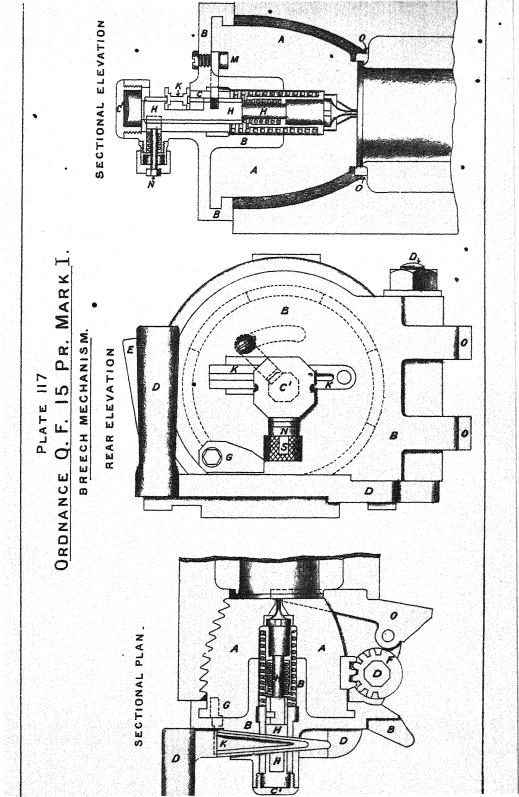


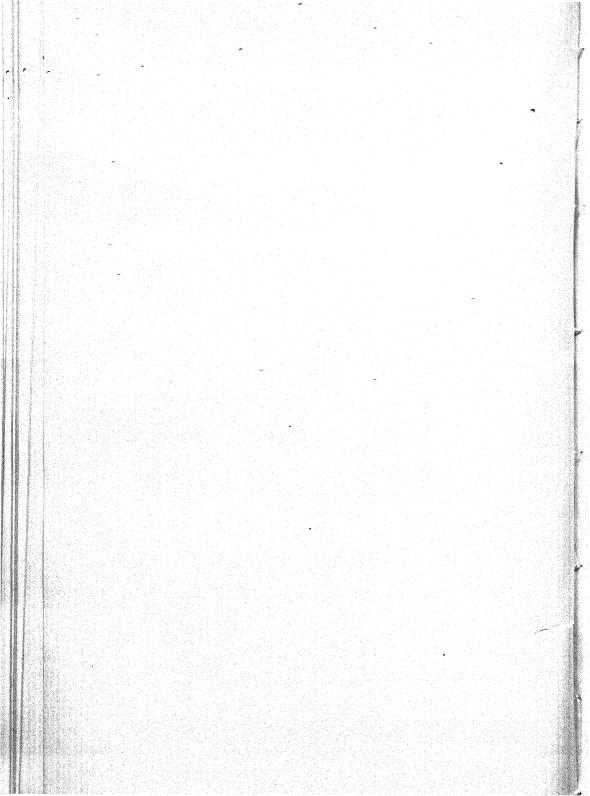


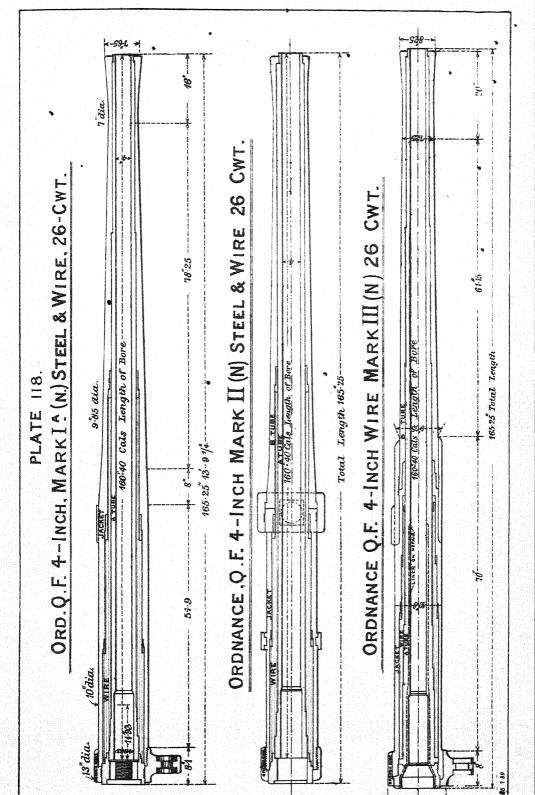


5.118 MARK I. LENGTH OF RIFLING 76.724 . PLATE 116. TOTAL LENGTH 90 Scale //2th. ORDNANCE Q.F. 15 JACKET 自自









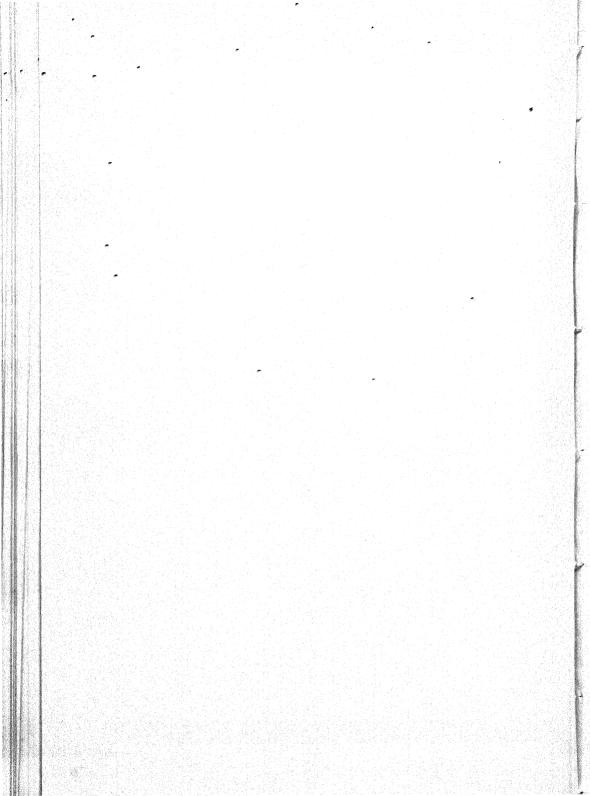
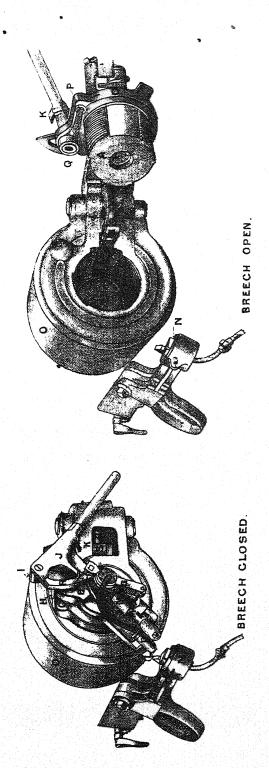


PLATE 119.



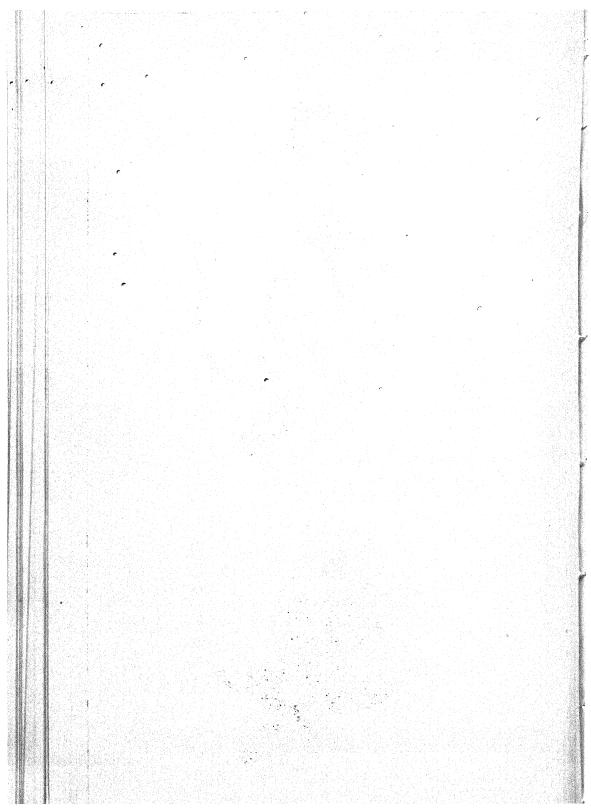
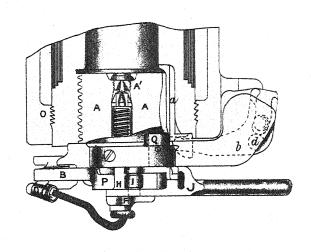
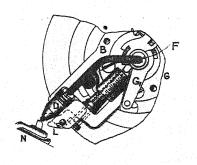
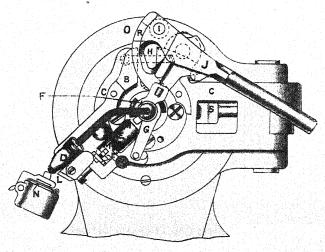
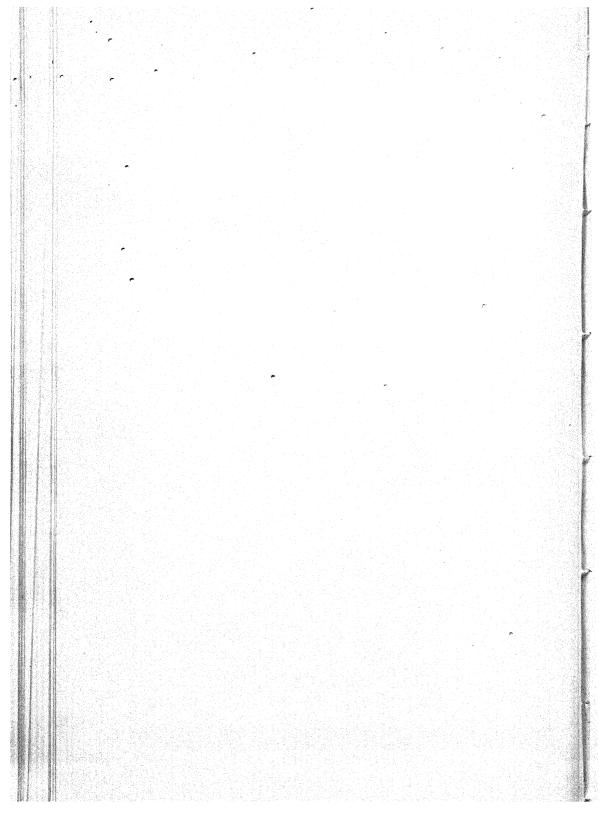


PLATE 120. 4 INCH Q.F. MECHANISM



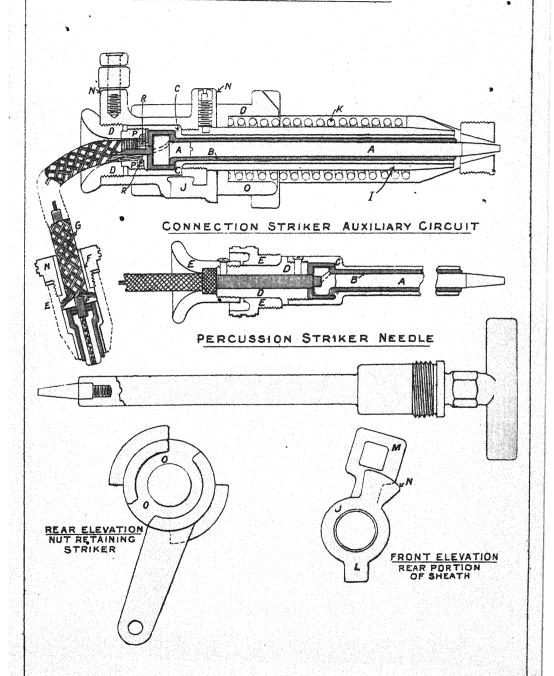


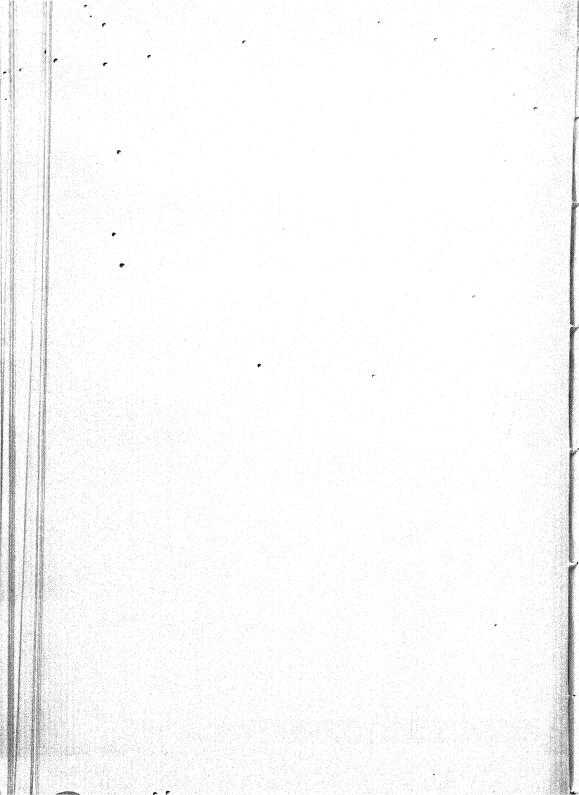


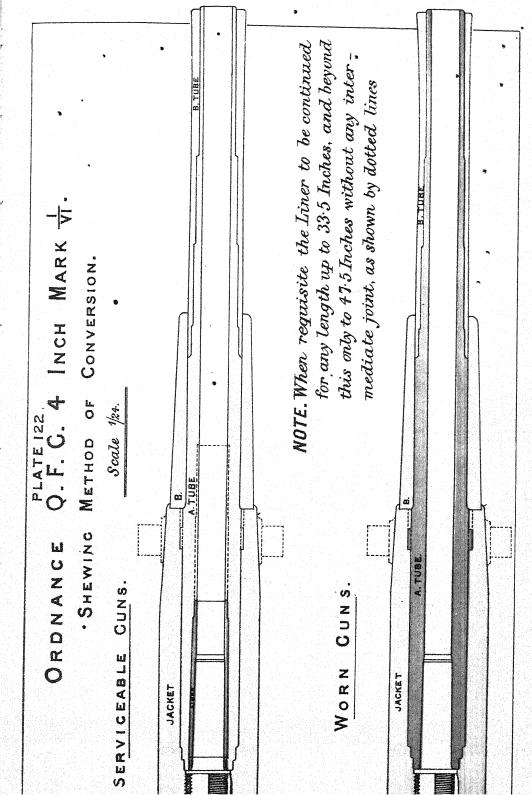


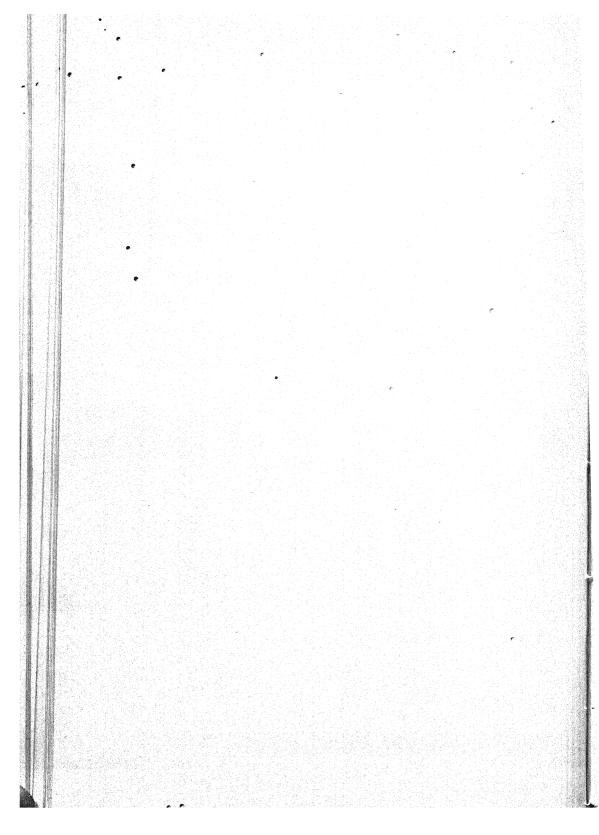
.PLATE 121.

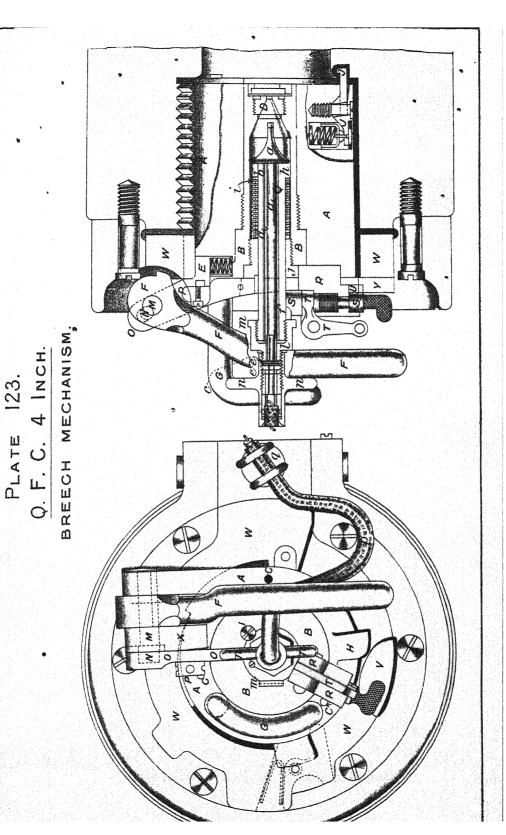
ORDNANCE Q.F. 4-INCH MARKS IJA, IB, AND THE STRIKER E. & P. MARK I & II.

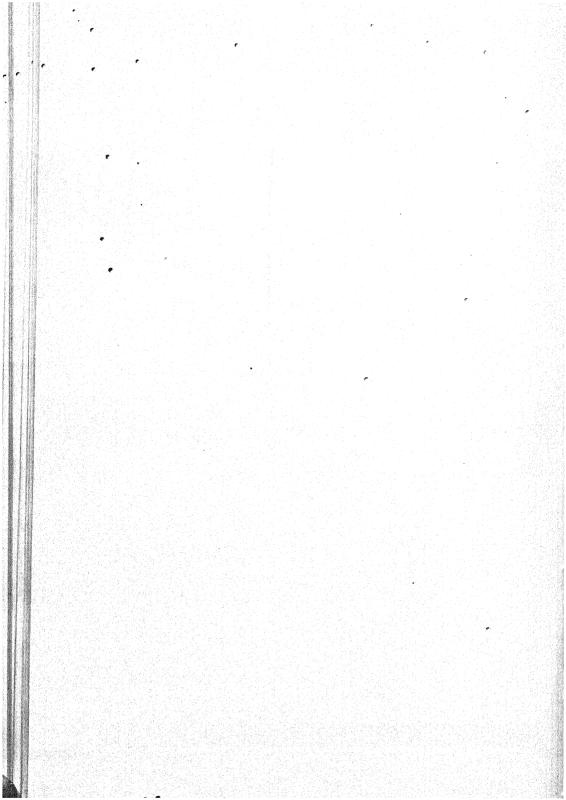




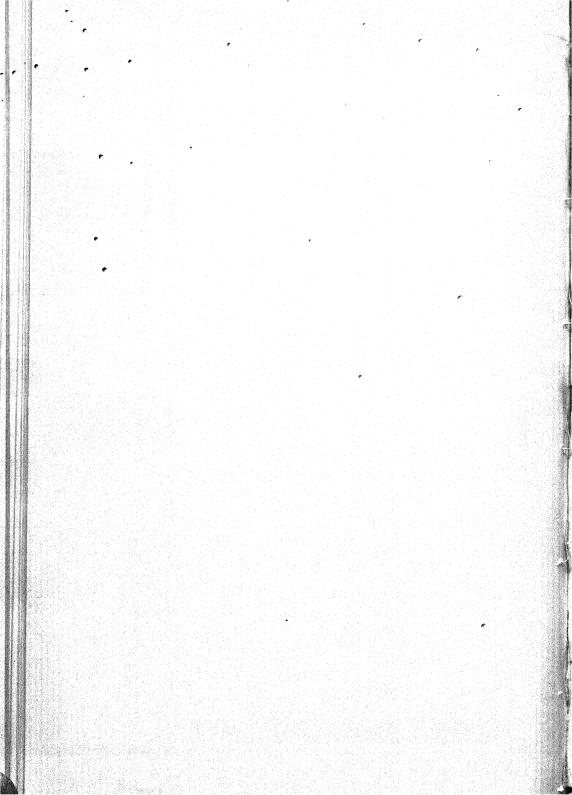


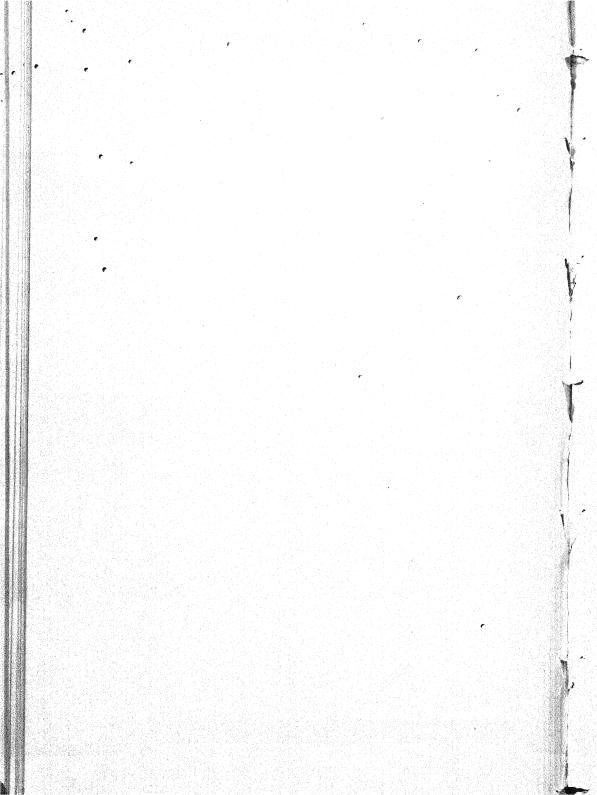




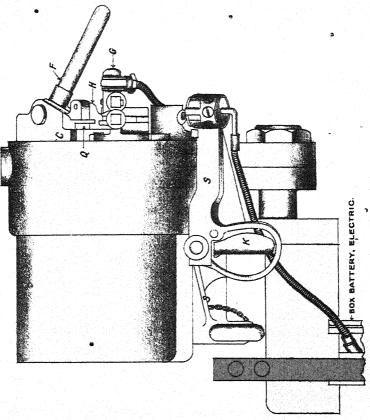


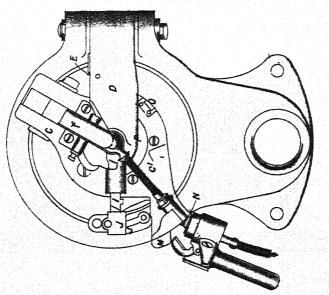
ORDNANCE, Q. F. 4.7 INCH, MARK I.	Scale 1/20. Scale 1/20. Scale 1/20. A.TUBE Leacth of Bore-183-40 lats.	22.85 21.85 21 26 26 26 26 26 26 26 26 26 26 26 26 26	MARK II. STEEL 41 CWT. Scale 1/20. S
		38.75	3.765

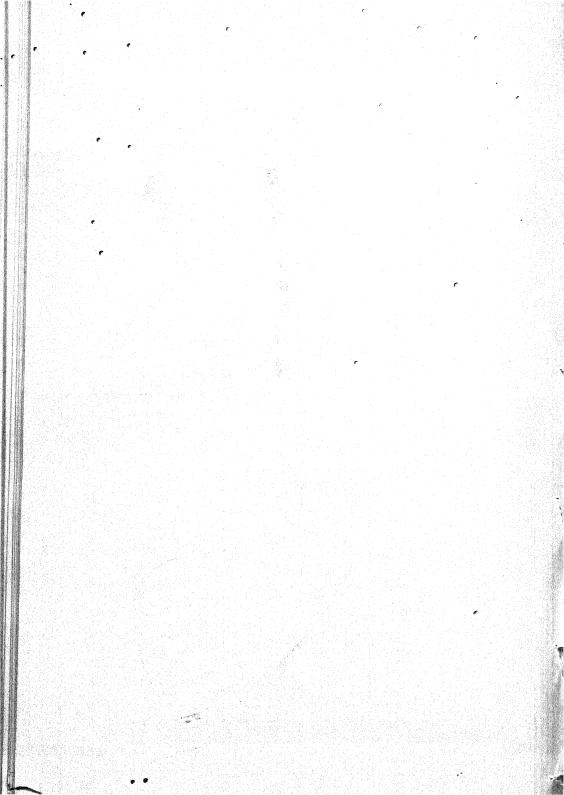


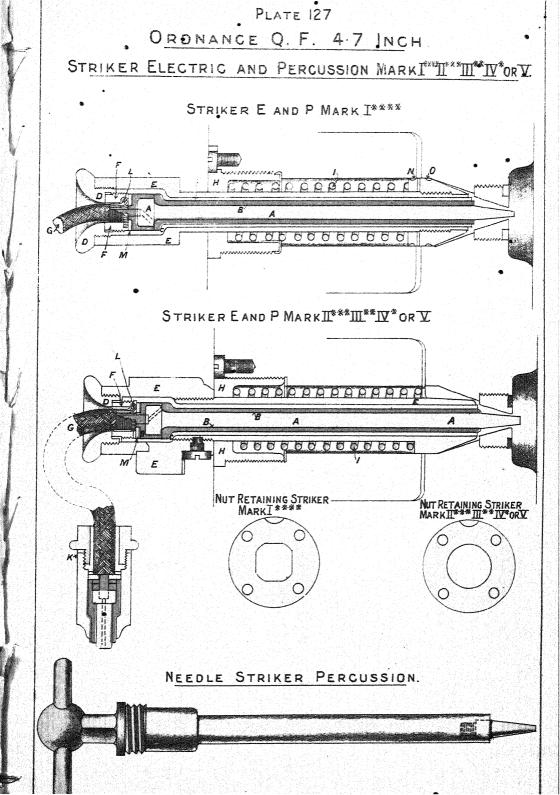


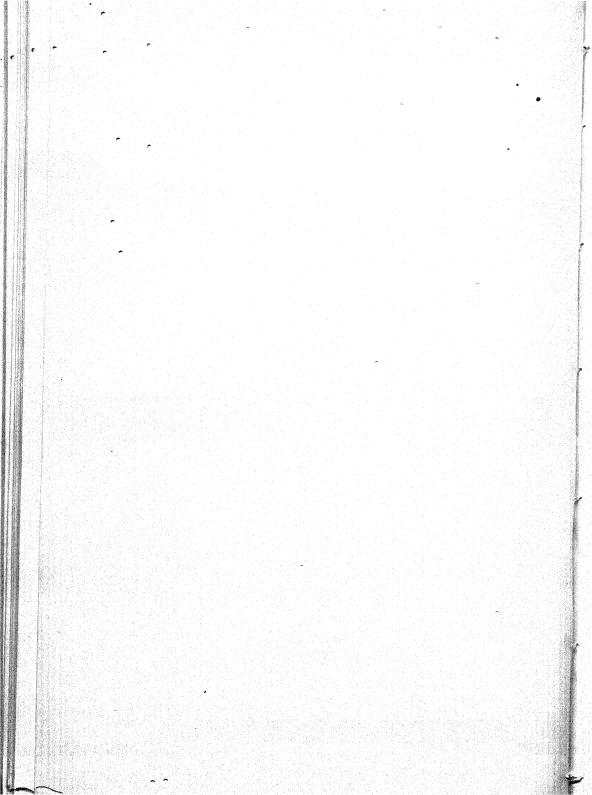
ORDNANCE Q.F. 4.7 INCH. PLATE 126

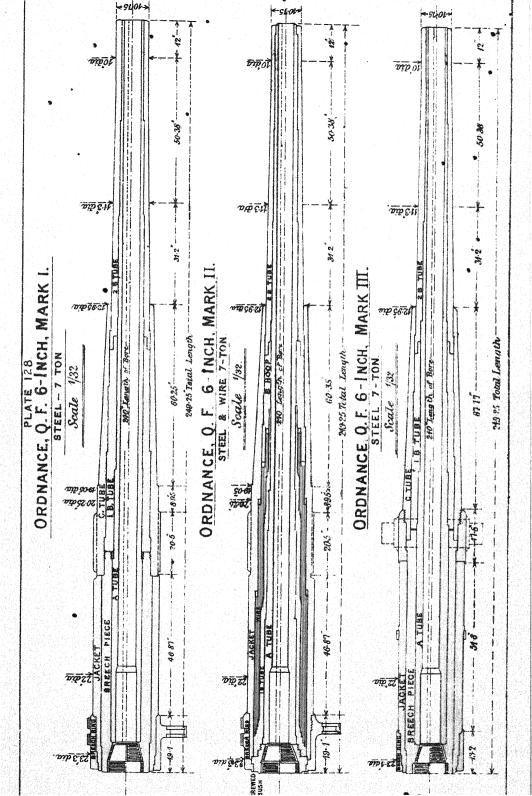


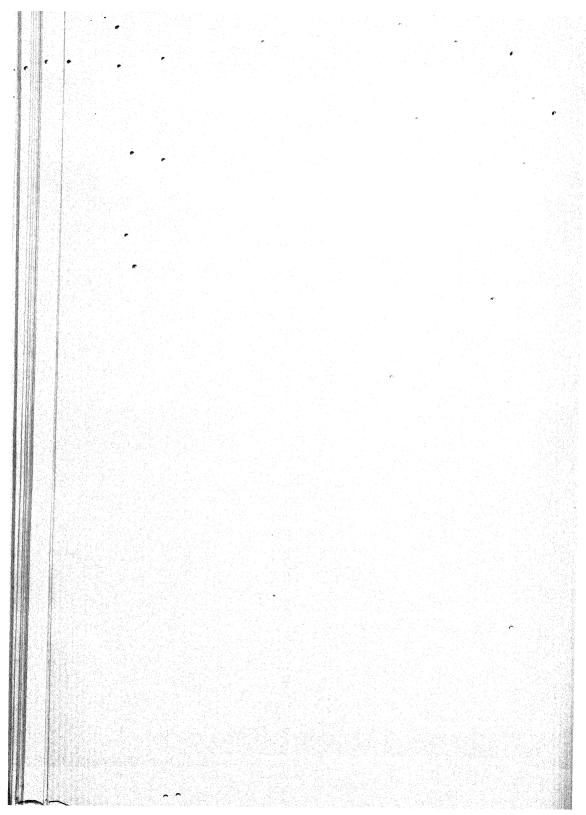












ATTACHMENT OF ELECTRIC CABLE TO STRIKER NEEDLE" 6 INCH QUICK FIRING GUNS MECHANISM. PLATE 129. BREECH

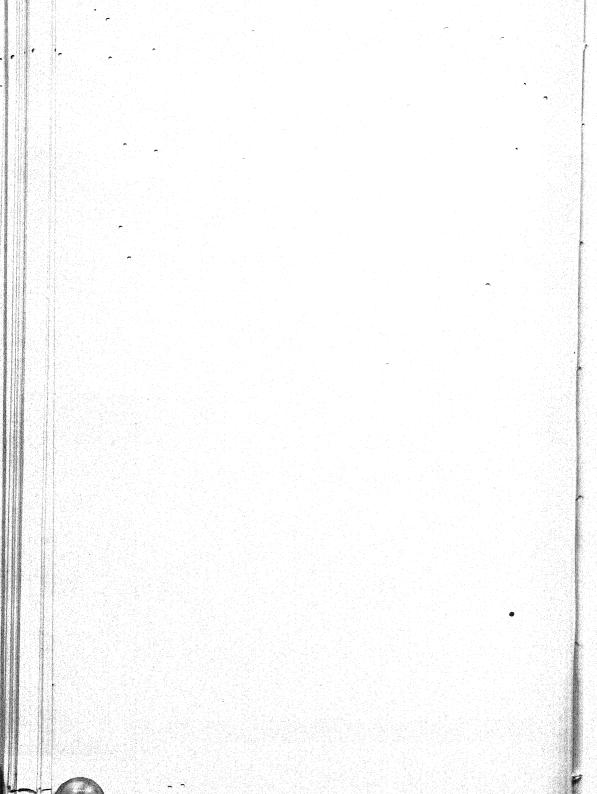
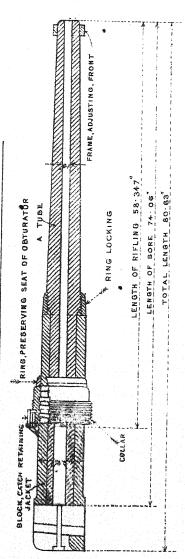
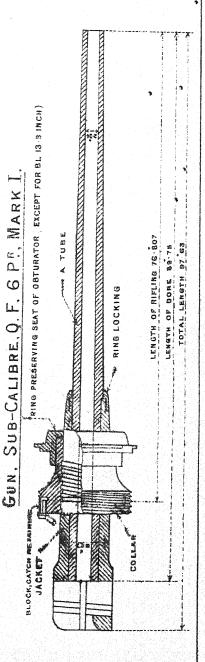


PLATE 130.

GUN, SUB-CALIBRE, Q. F., 3 P., MARK !





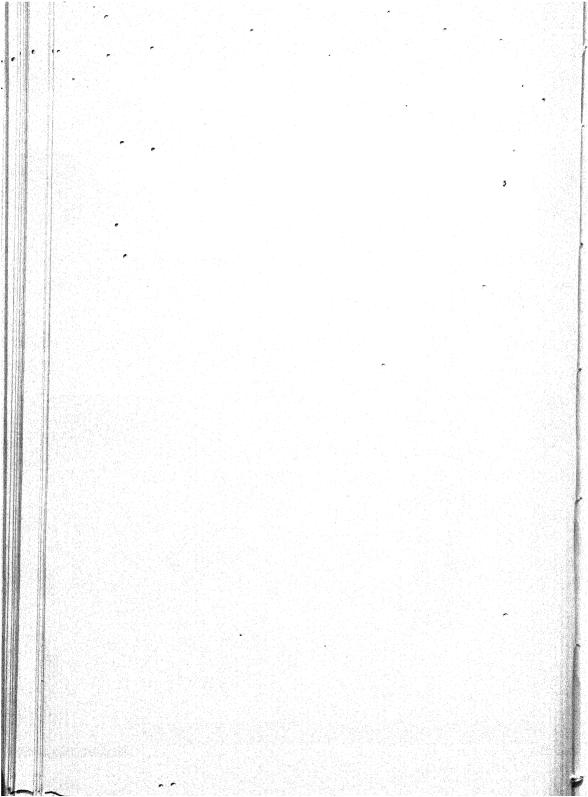
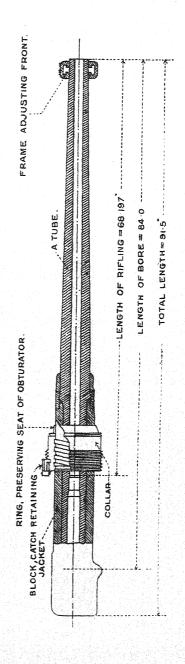


PLATE 131.

GUN, SUB-CALIBRE, Q.F., 3 P., MARK II.

SUB-CALIBRE GUN MARK II., FOR B.L. 6-INCH, MARK VII. AND VIIT GUNS. STEEL 4 CWT.

SCALE 18 TH



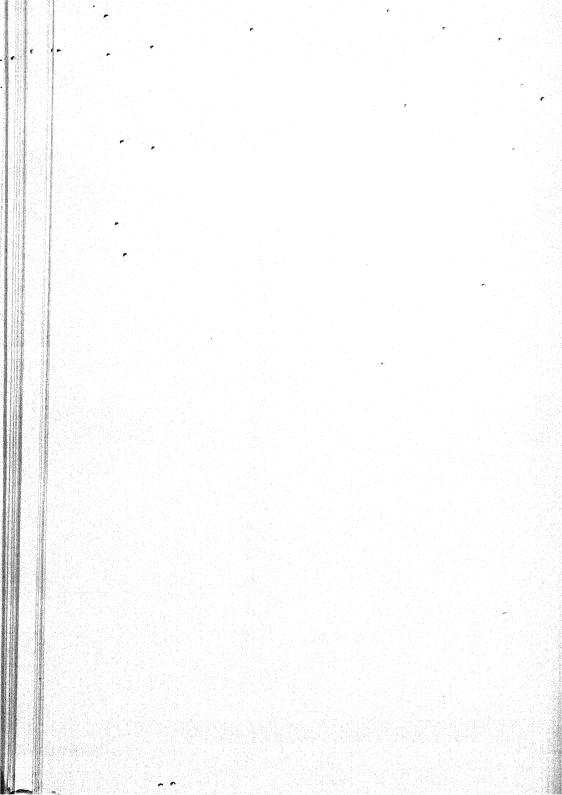
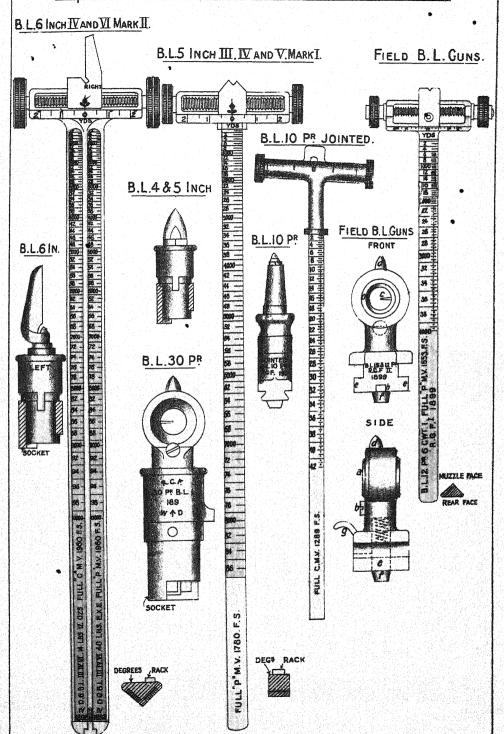


PLATE 132

TYPES OF TANGENT & FORE SIGHTS FOR B. L. GUNS.



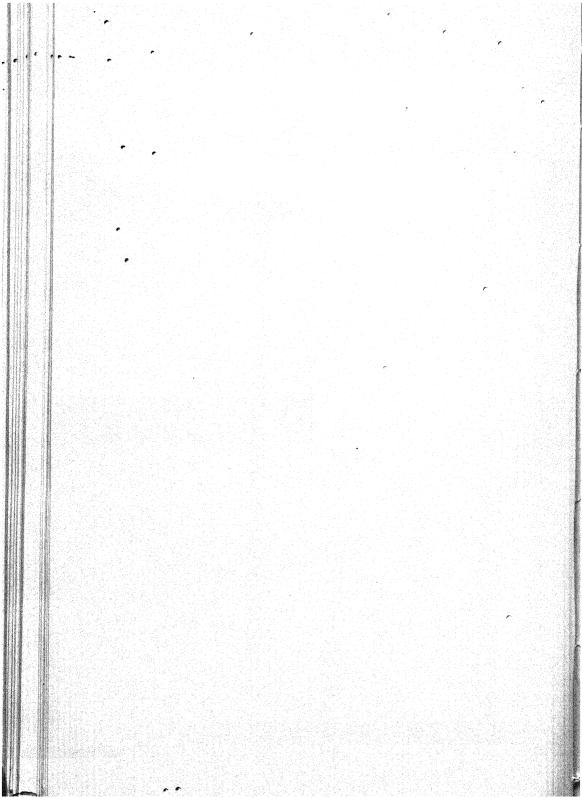
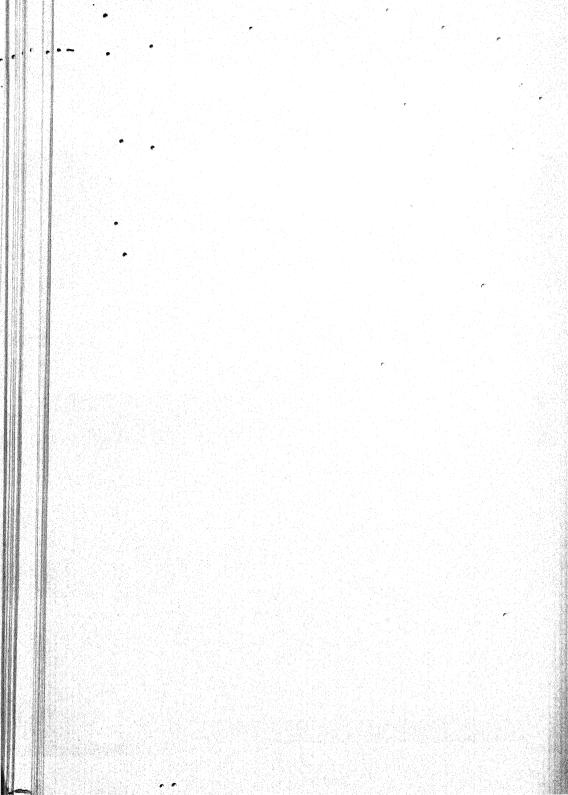


PLATE 133. SIGHTS, B. L. FORE AND TANGENT. 15-PR MARK II TO IV GUNS (MARK Y) STEEL, WITH SOCKET 12-PR. MARK II AND III GUNS (MARK II) & GRADUATED DRUM. 12-PR. MARK II, IVAND IVA GUNS (MARK III) SCALE 1/2 TANGENT FÖRE В Section on a. b. CLAMPING SPRING & DIES Enlarged view Parts of Sight G. Feather. A. Sight tangent. H. Screw plug B. Socket. C. Sheath 1. Clamping spring D. Yard scale dram. E. Milled head J. Dies K. Pinion F. Screw actuating L. T. M. Nut retaining L. Thrust pin



B.L.12 P. MARKS & IV GUNS, & 15 P. MARKSILTO IV GUNS. 8

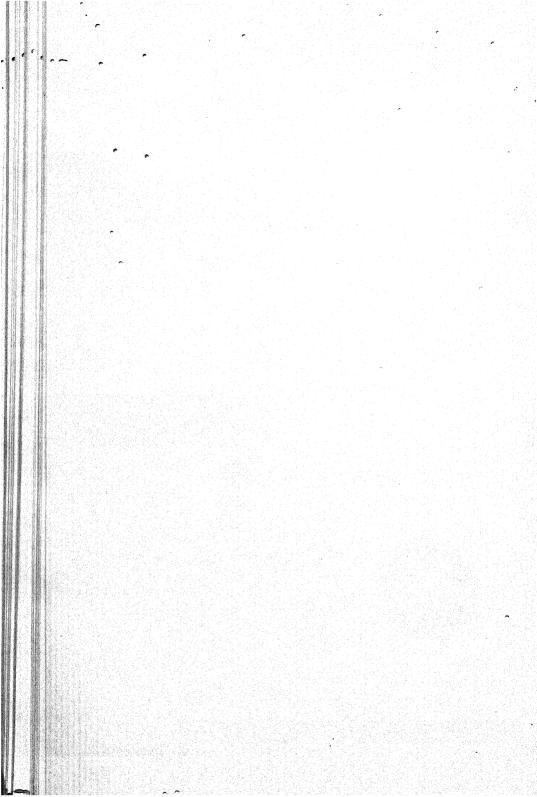
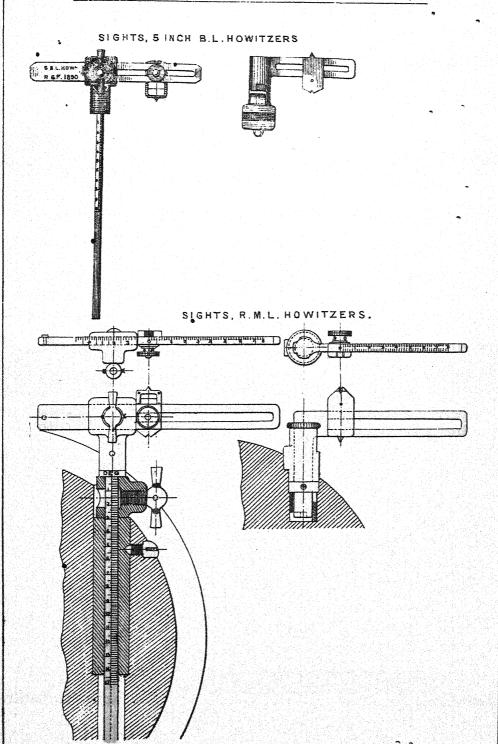
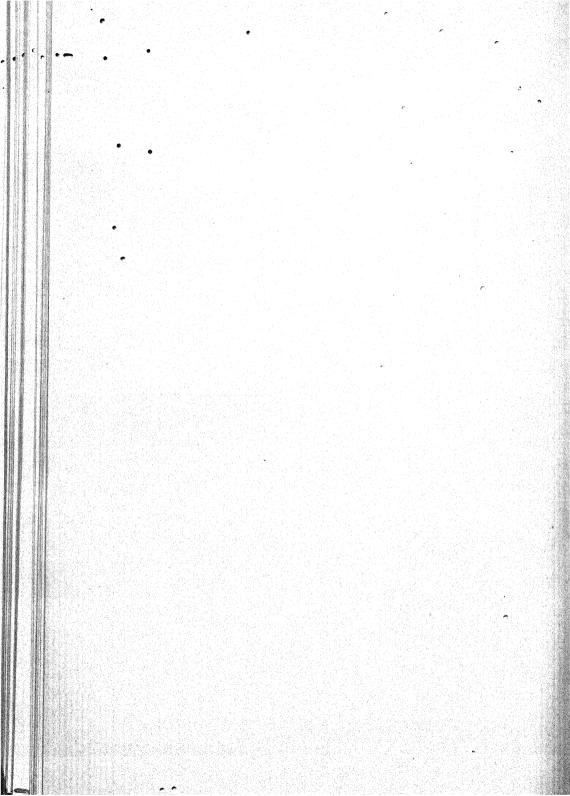
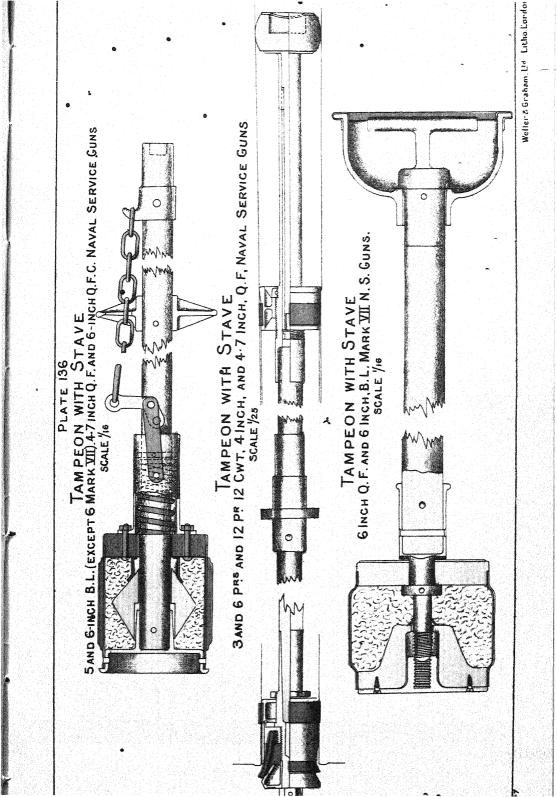


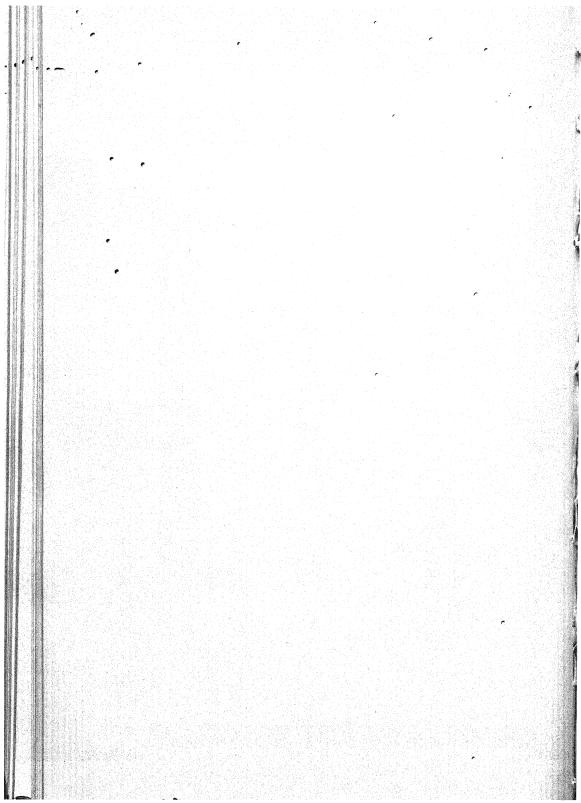
PLATE 135.

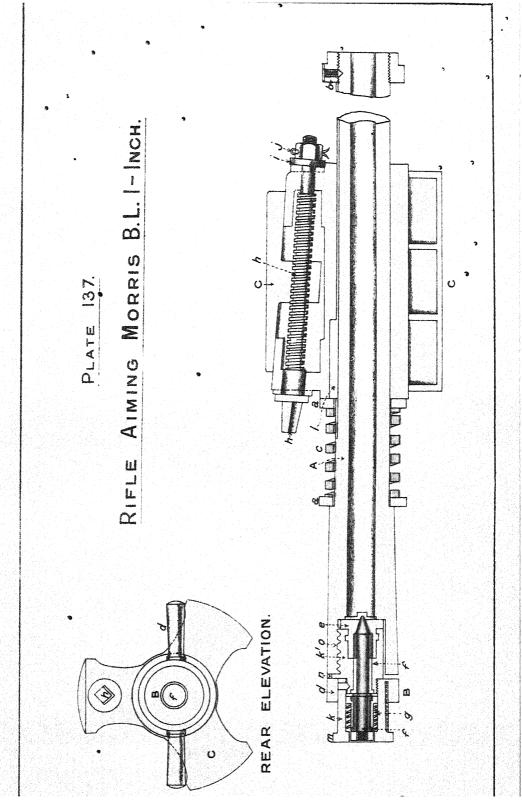
TYPES OF SIGHTS FOR HOWITZERS.

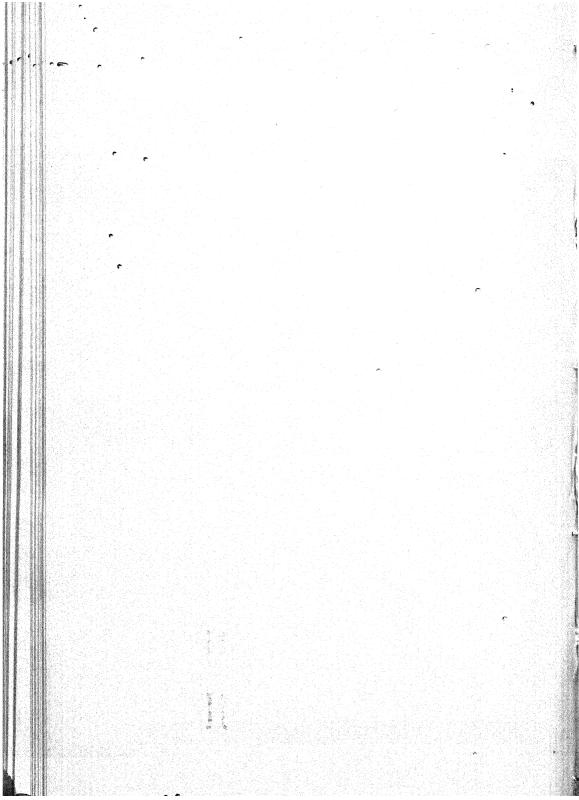




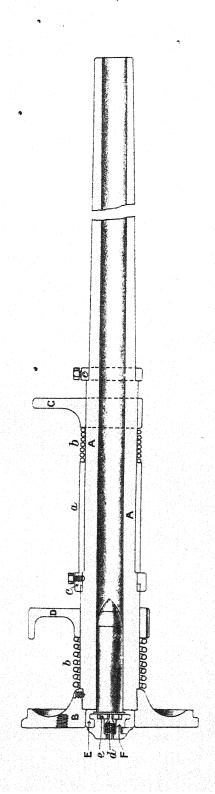


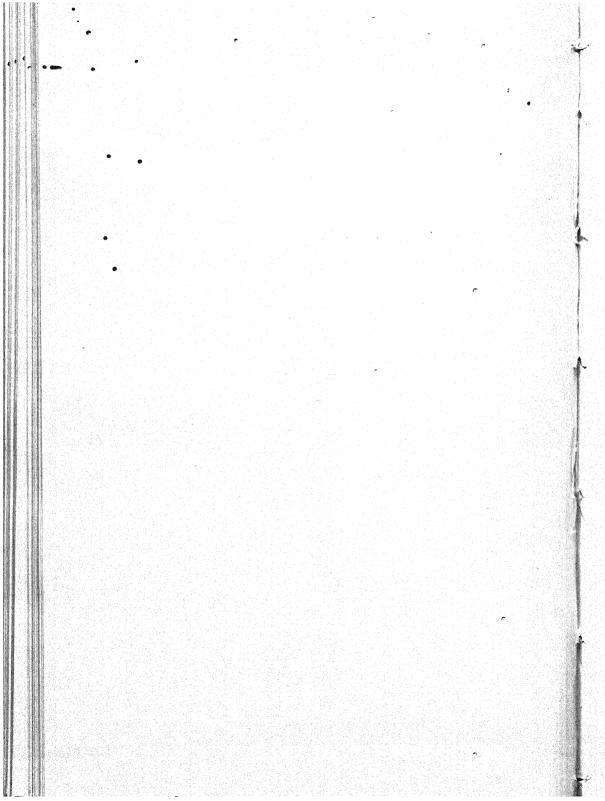


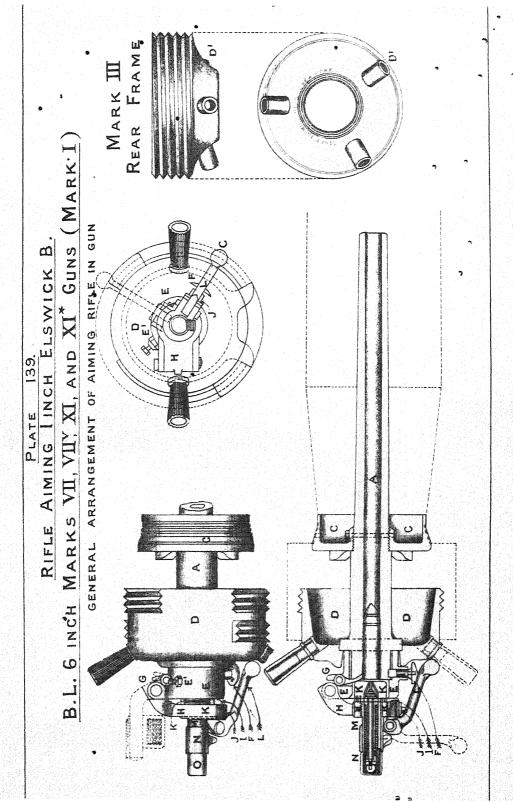


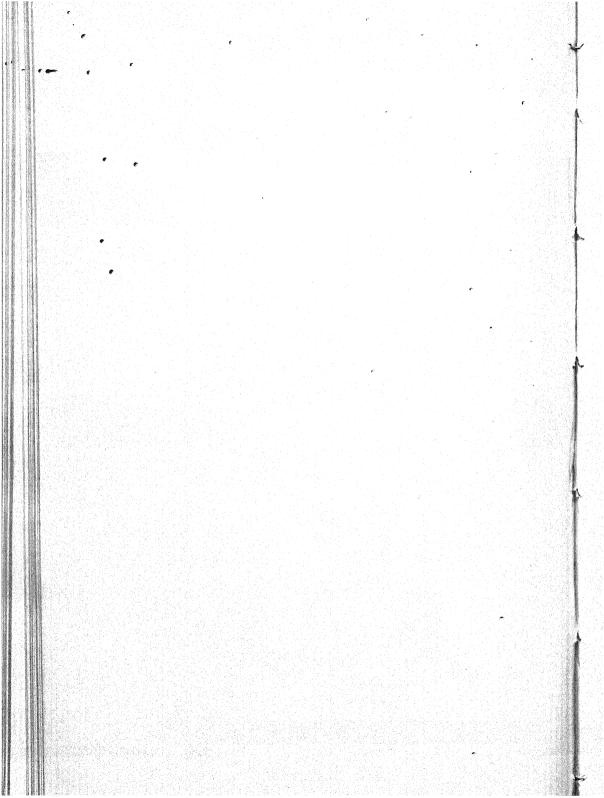


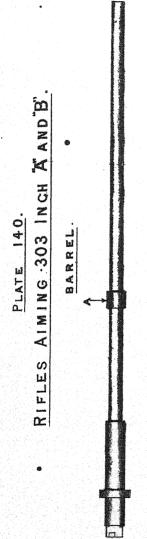
RIFLE AIMING I" ELSWICK "A" PLATE 138.



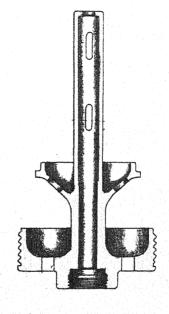


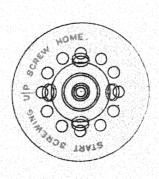




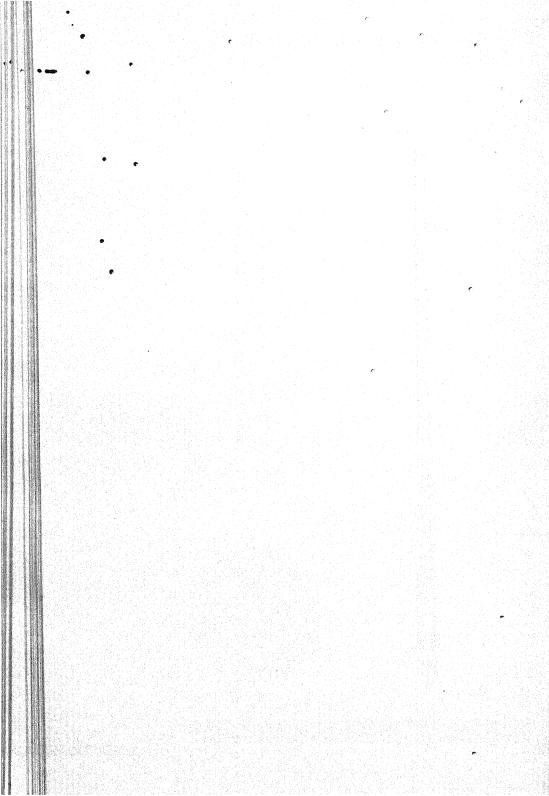


FRAME ADJUSTING "B"



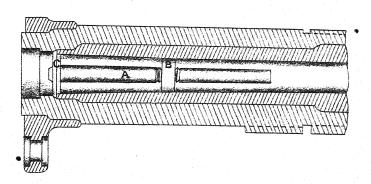


2 2

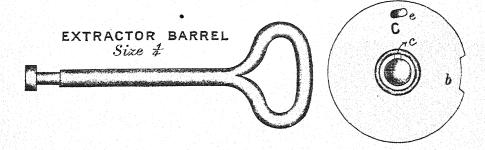


· PLATE 141.

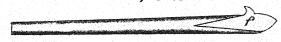
RIFLE AIMING I" MORRIS, Q.F.



REAR DISC-4 Size

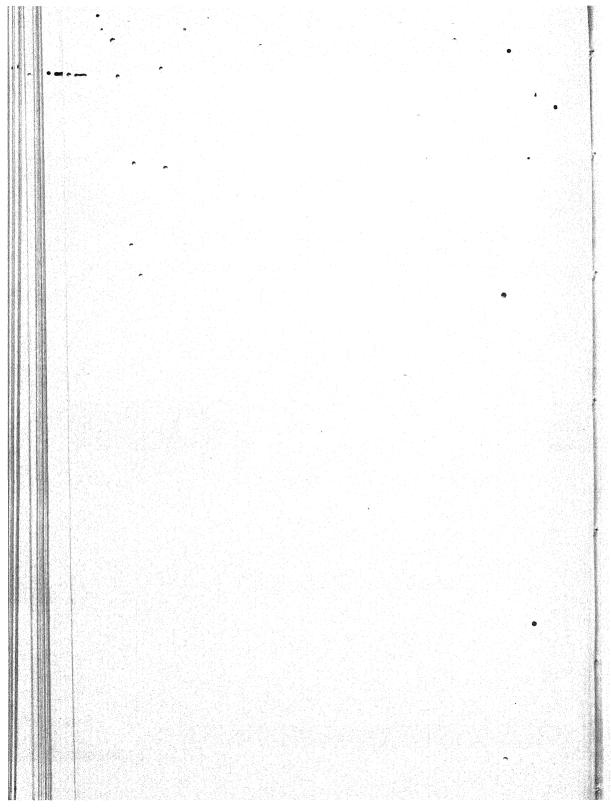


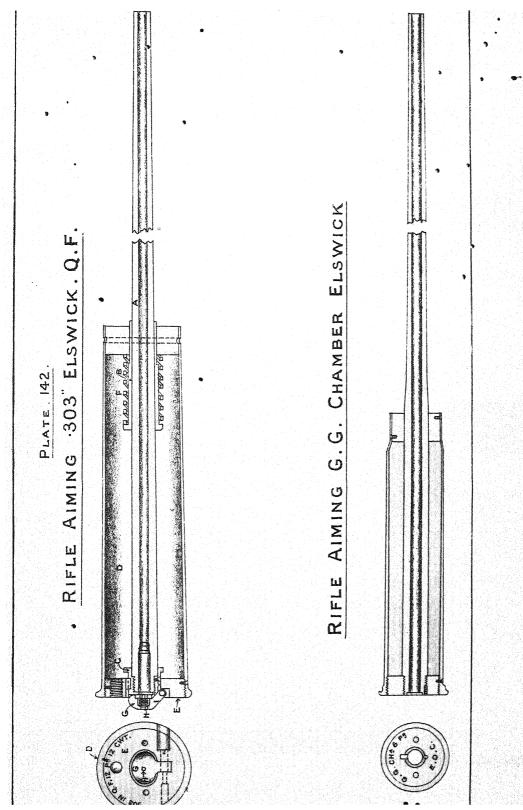
EXTRACTOR CARTRIDGE # Size

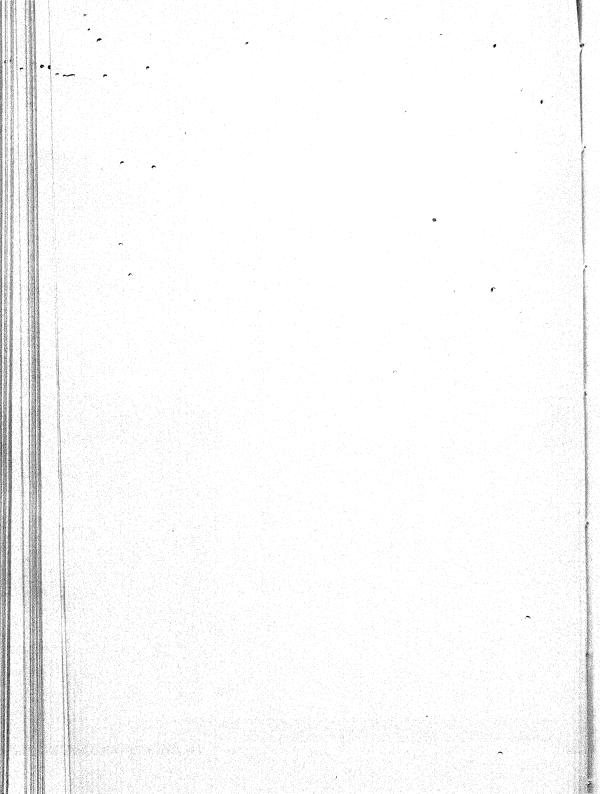


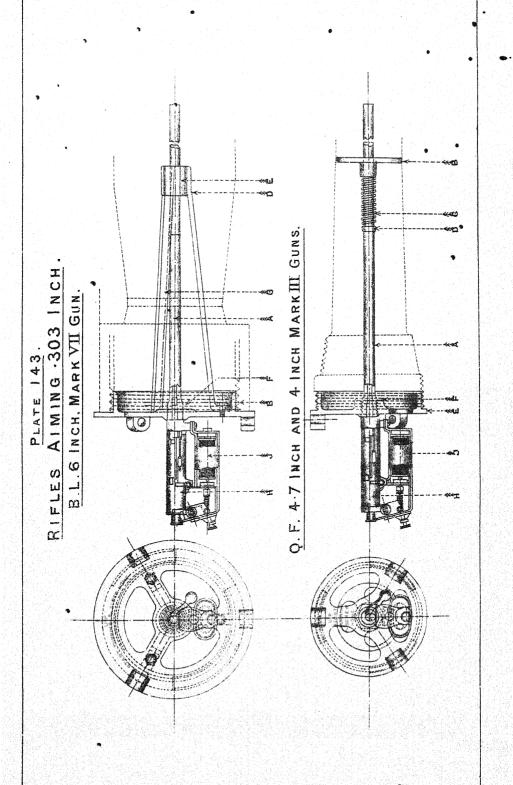
AIMING TUBE - 2 Size

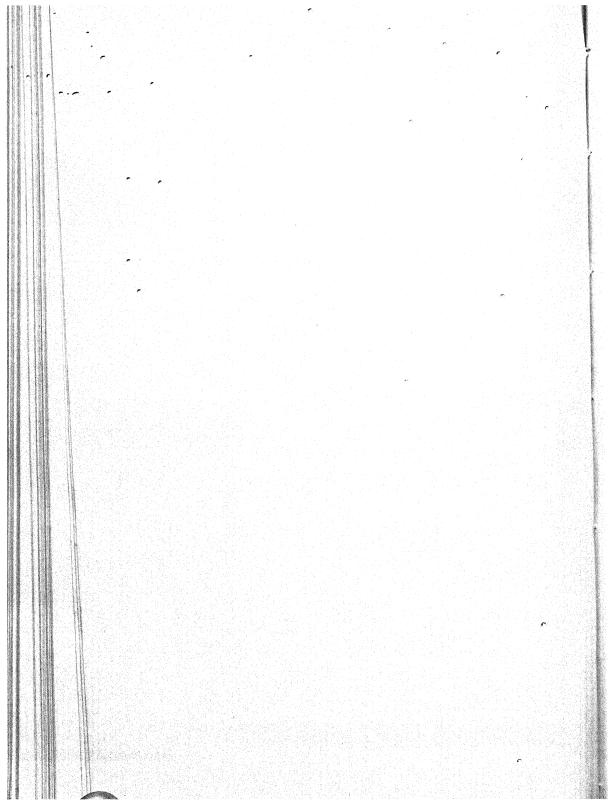




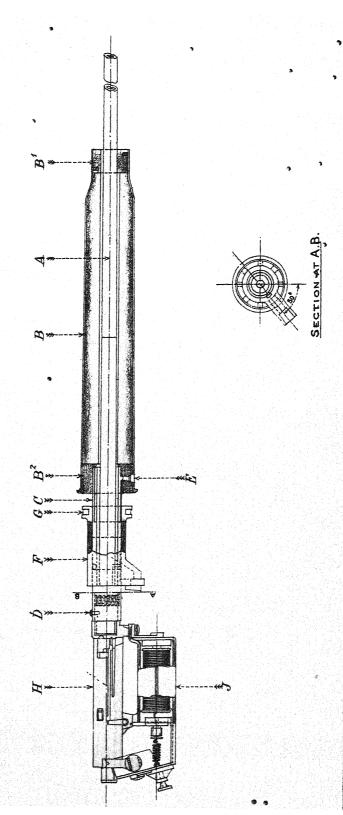


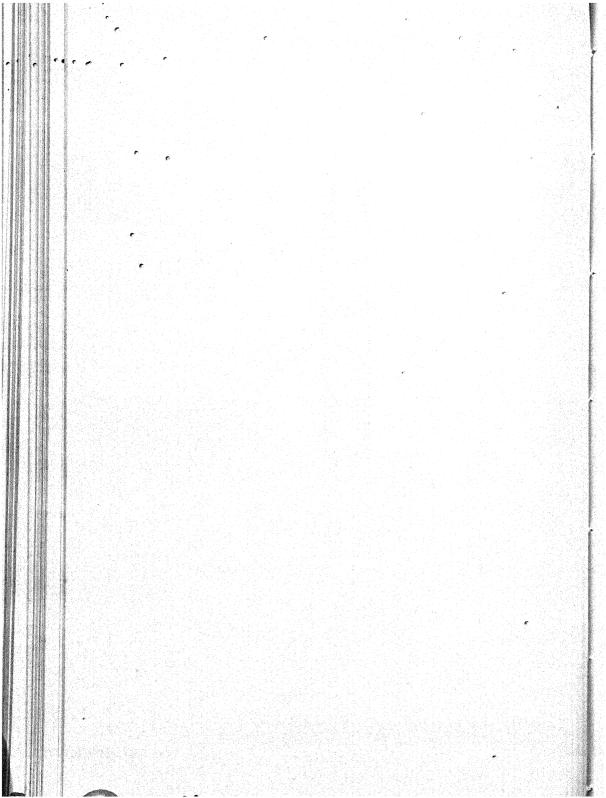


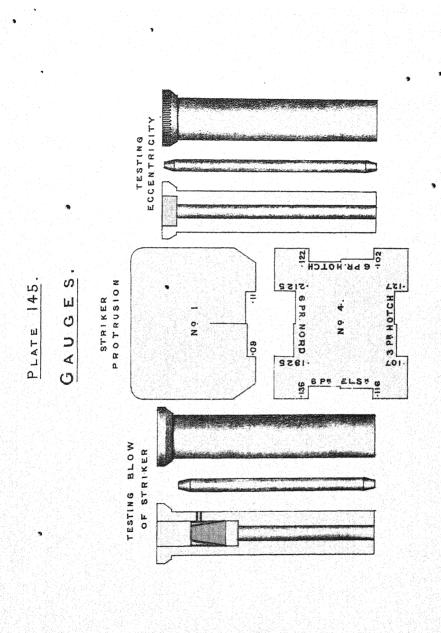


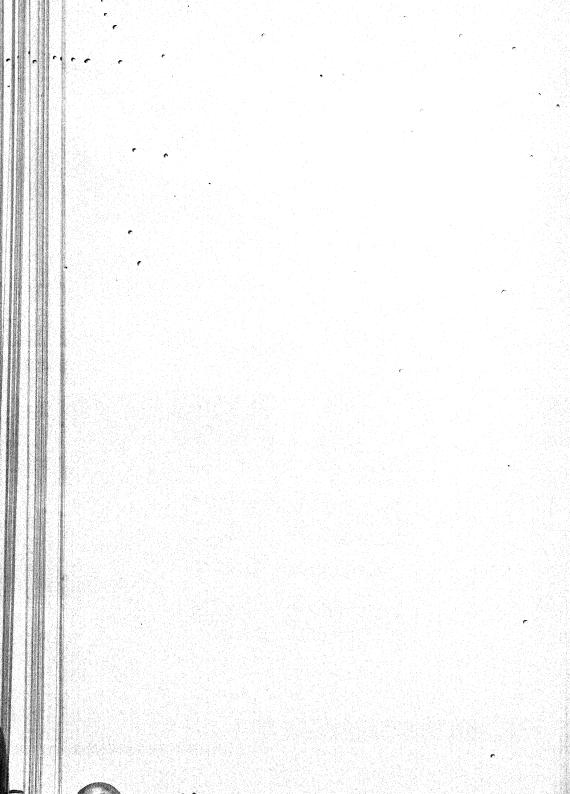


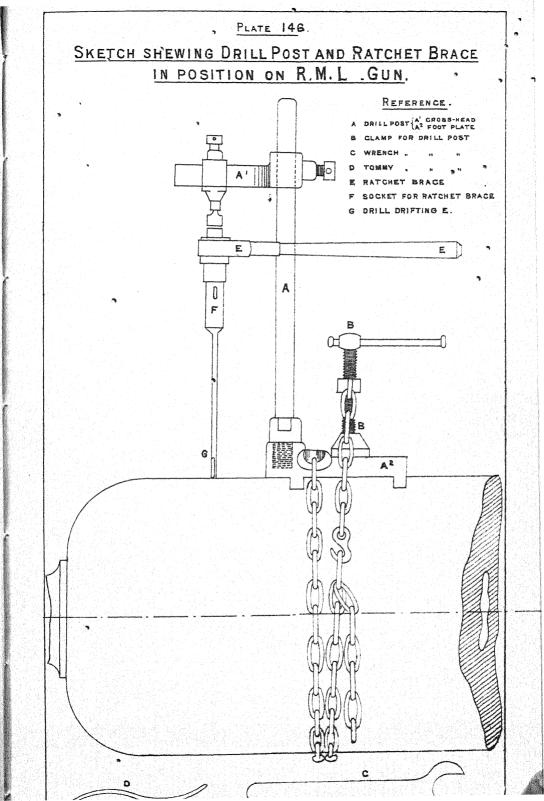
RIFLE AIMING 303 INCH Q.F. VICKERS 3 PR.

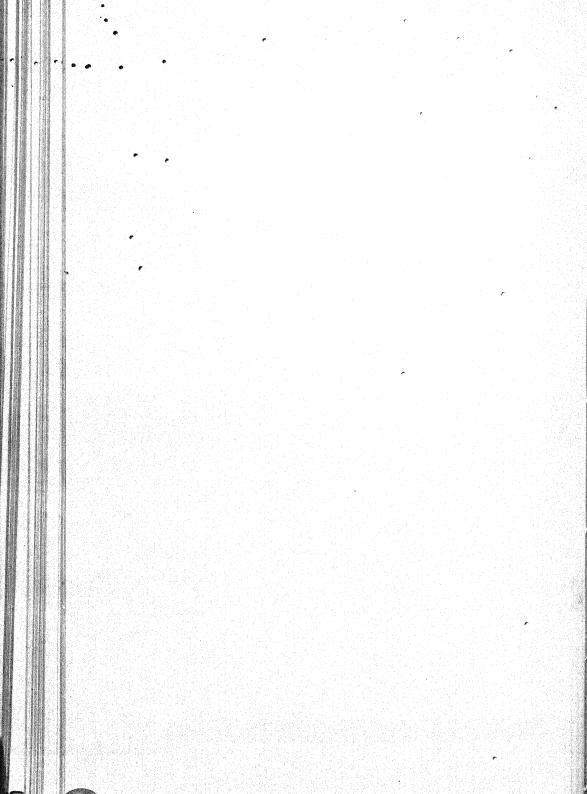


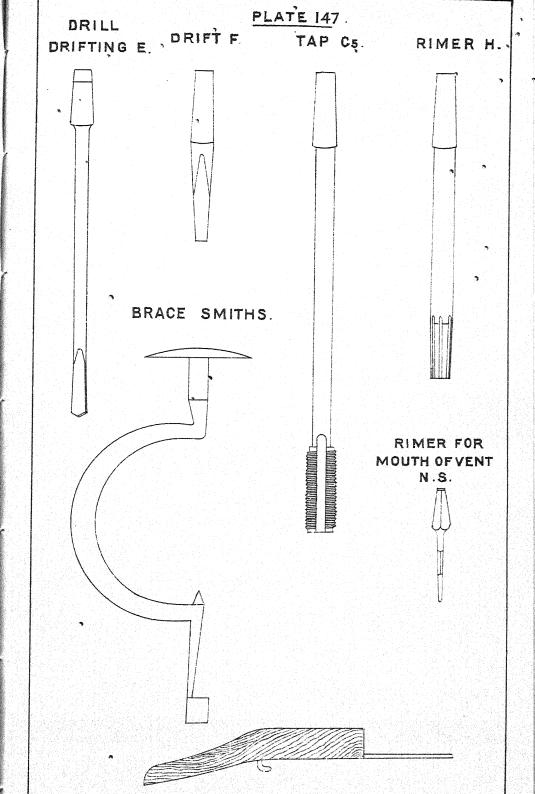


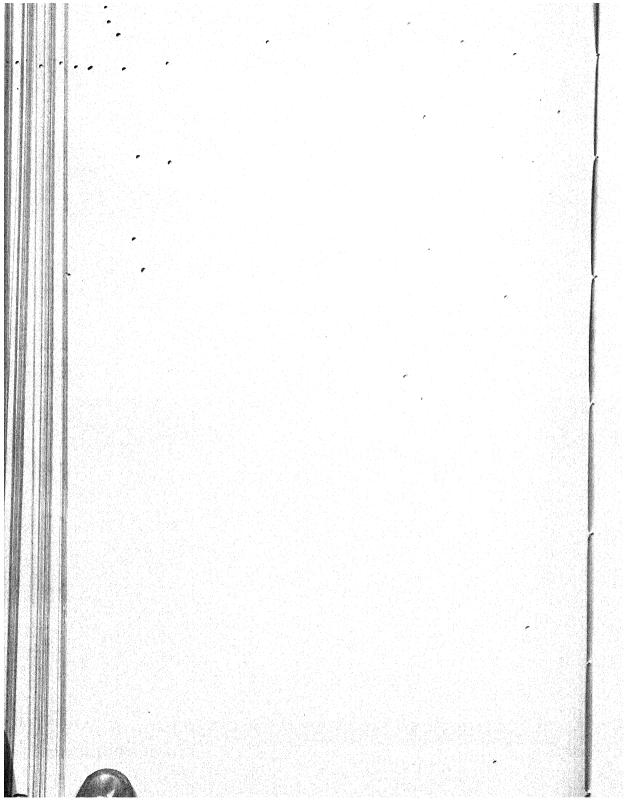


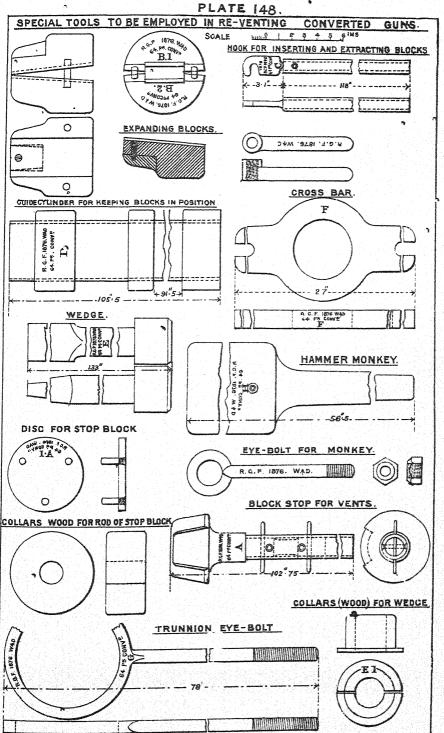


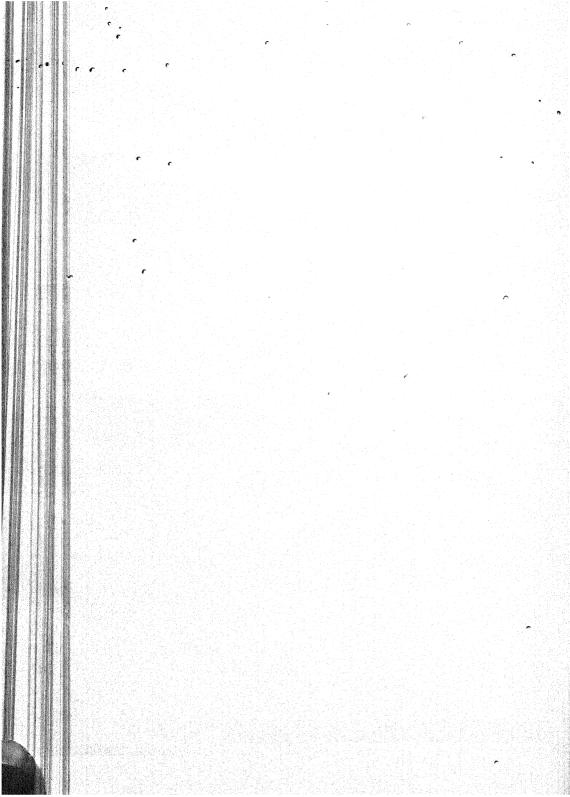








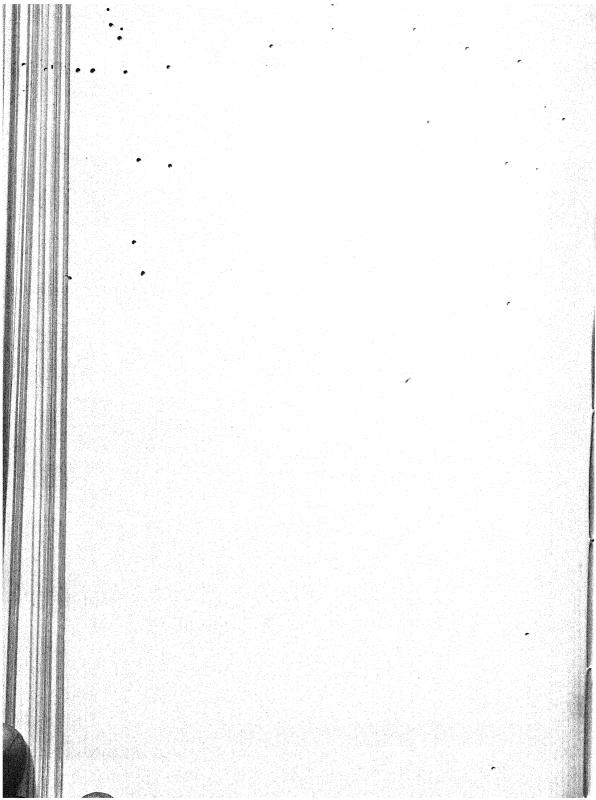


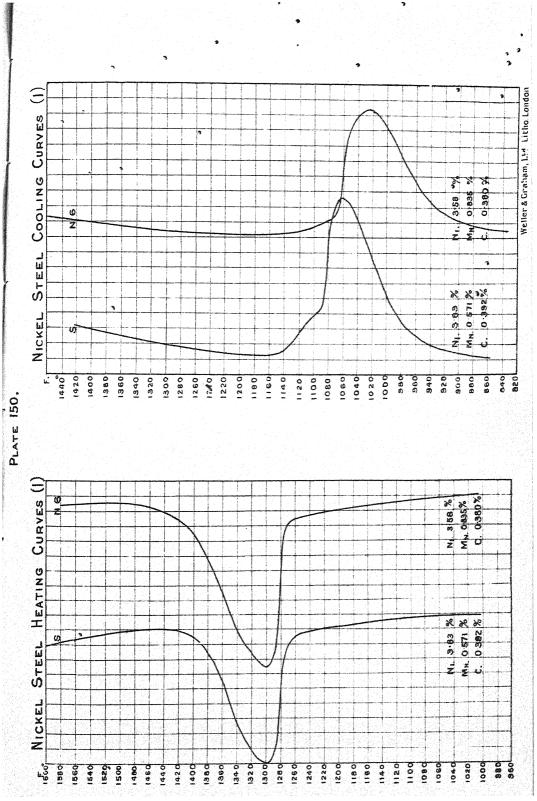


COOLING CURVES Weller & Graham. Lto Litho Londoy. 0.295 % STEEL Σ ပ CARBON 0.352% Σ ပ CURVES 0.285 % NR 0-747 HEATING ď MN 0 754 % C. 0 352 % STEEL 1600 CARBON

.

PLATE 149.





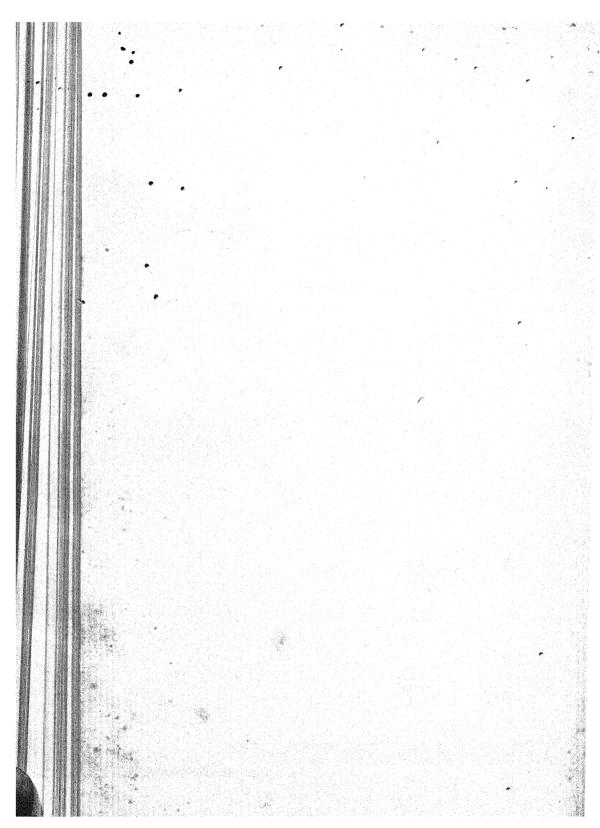
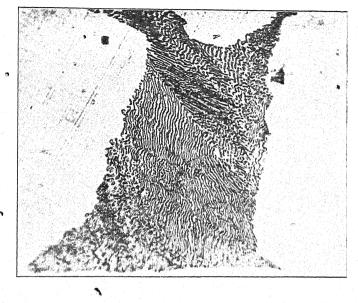


PLATE 151.

No. 2.

MICROPHOTOGRAPHS OF GUN STEEL.

No. 1.



Magnified 100 diameters.

Magnified 1,000 diameters.

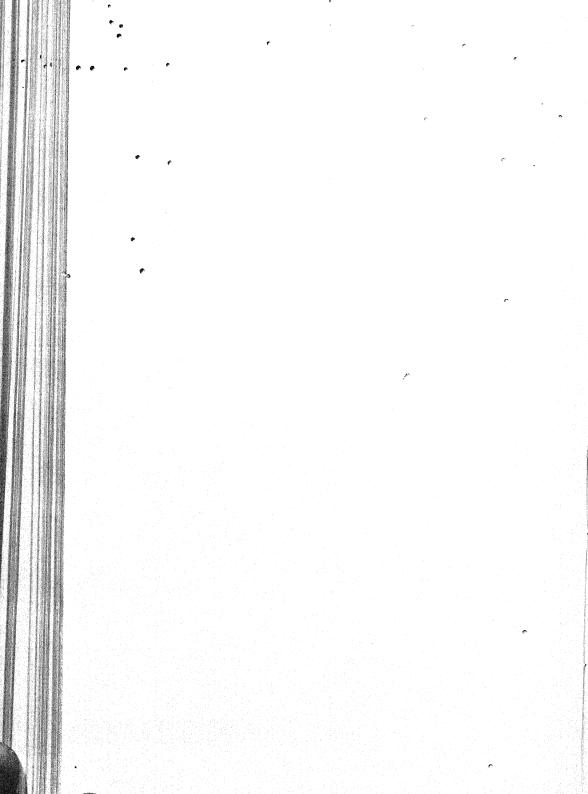


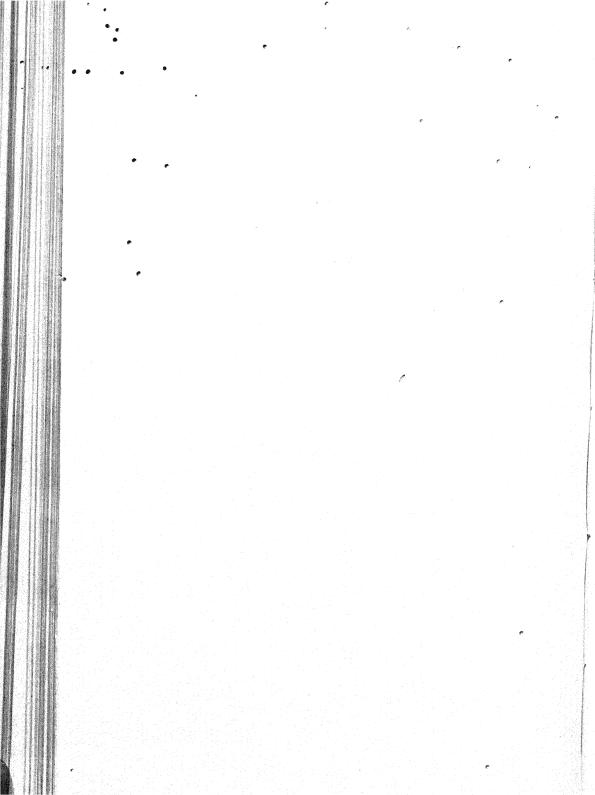
PLATE 152.

MICROPHOTOGRAPH OF GUN STEEL.

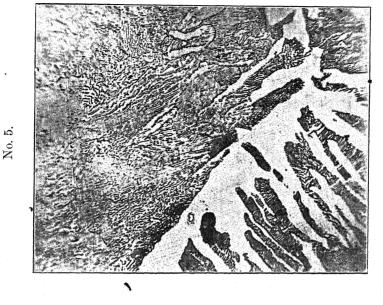
No. 3.



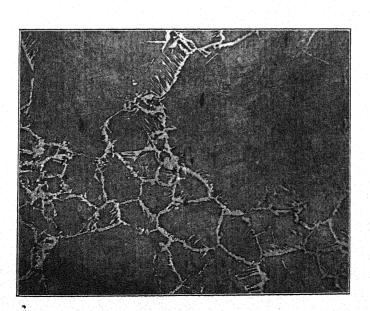
Magnified 100 diameters.



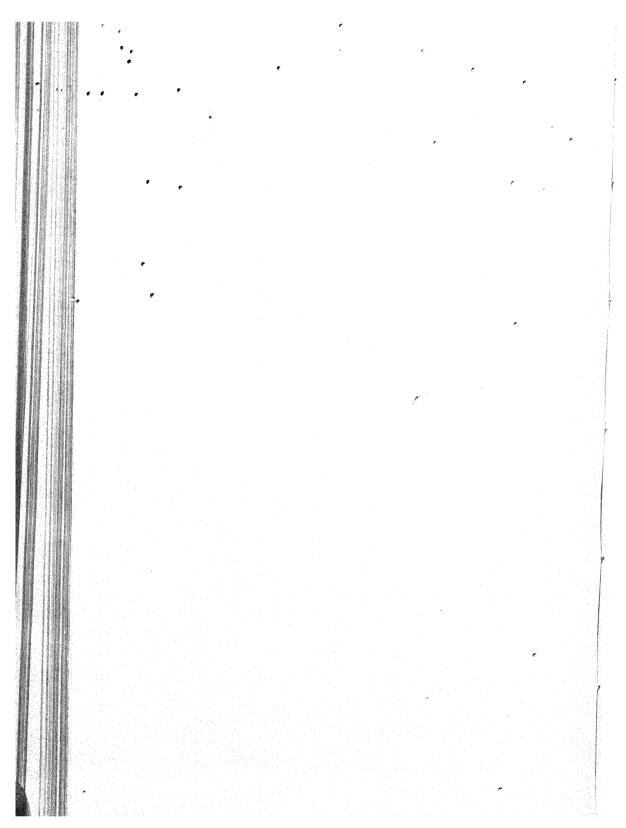




Magnified 1,000 diameters.

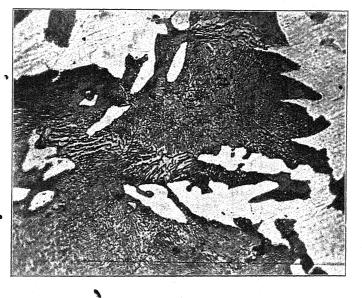


Magnified 100 diameters.

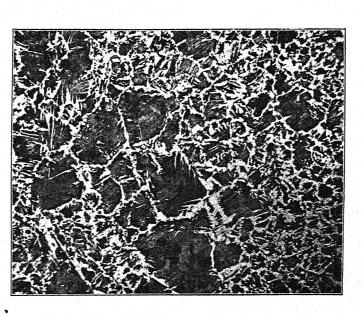




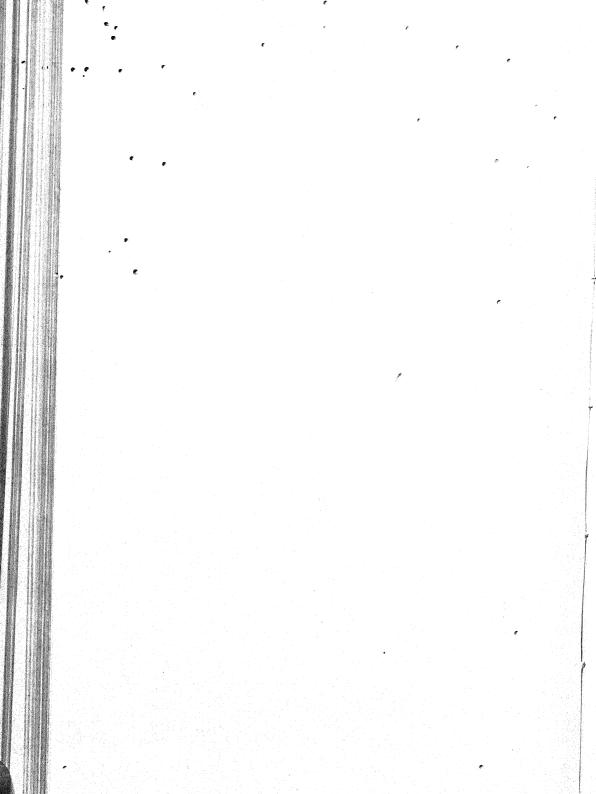
No. 7.



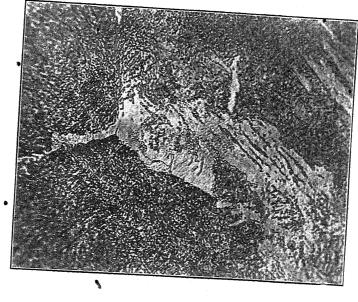
Magnified 1,000 diameters.



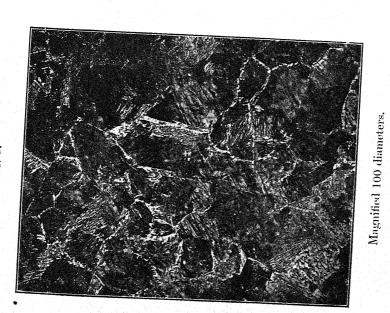
Magnified 100 diameters.

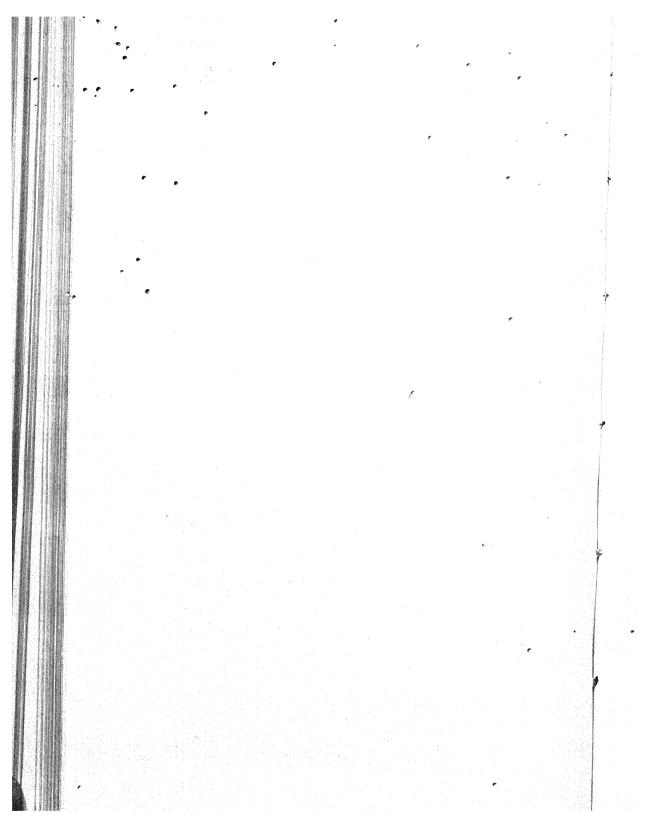


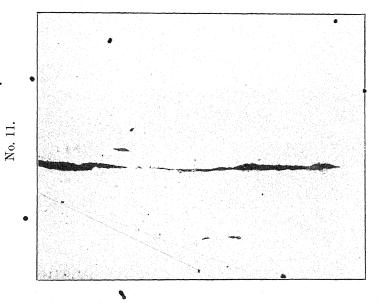
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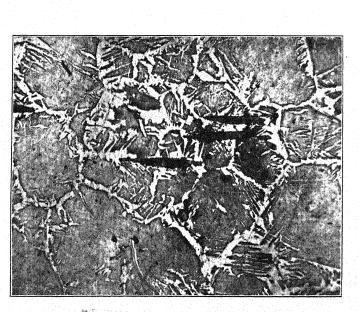
Magnified 1,000 diameters.







Magnified 100 diameters.



Magnified 100 diameters.